MHC-7700D

SERVICE MANUAL

AEP Model

- MHC-7700D is composed of following models. As for the service manual, it is issured for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR MHC-7700D

AMPLIFIER	TA-H7700D
CD PLAYER	CDP-H7700D
TUNER	ST-H7700D
CASSETTE DECK	TC-H7700D
SPEAKER SYSTEM	SS-H7700D

SPECIFICATIONS

Power requirements
220 V — 230 V, 50/60 Hz
Power consumption
150 watts
Dimensions Approx. 225 x 365 x 275 mm (w/h/d) ($8\frac{7}{8}$ x $14\frac{3}{8}$ x $10\frac{7}{8}$ inches) incl. projecting parts and controls
Weight Approx. 11.7 kg (25 lb 12 oz)
Supplied accessories
Remote commander (1) (RM-S570)
Sony SUM-3 (NS) batteries (2)
AM loop antenna (1)
FM antenna (1)
AC power cord (1)
Flat cord (2)
Optical cord (1)

Design and specifications subject to change without notice.

- G : Germany model
- IT : Italian model

PARTS LIST

NOTE:
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		******	
	1-501-369-11	ANTENNA	
	1-501-374-11	ANTENNA, LOOP	
	1-574-264-11	CORD, LIGHT PLUG	
	1-574-927-21	CORD (WITH CONNECTOR) (TA-ST)	
⚠	1-575-131-11	CORD, POWER	
	1-590-855-11	CORD, SPEAKER (SS)	
	1-590-870-11	CORD (WITH CONNECTOR) (TA-TC-CD)	
	1-693-086-11	REMOTE COMMANDER (RM-S570)	
*	3-378-785-01	CUSHION (FRONT) (TC)	
*	3-378-786-01	CUSHION (REAR) (TC)	
	3-694-922-01	SHEET PROTECTION (SS)	
	3-754-881-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE, DUTCH) (AEP)	
	3-754-881-41	MANUAL, INSTRUCTION (GERMAN, SWEDISH, ITALIAN, PORTUGUESE)	
	3-755-033-11	MANUAL, INSTRUCTION (SS)	
	4-910-323-01	SHEET PROTECTION (TC)	
	4-920-941-01	SHEET (B), PROTECTION (CDP)	
*	4-945-075-01	CUSHION (RIGHT) (TA)	
*	4-945-076-01	CUSHION (LEFT) (TA)	
*	4-945-080-01	CUSHION (SS)	
*	4-951-877-01	CUSHION (ST)	
*	4-952-563-01	INDIVIDUAL CARTON (CDP, ST, TA, TC) (AEP)	
*	4-952-564-01	INDIVIDUAL CARTON (CDP, TA, TC)	

MINI Hi-Fi COMPONENT SYSTEM

SONY®

MICROFILM

9-957-270-11

Sony Corporation
Audio Group

English
92F0449-1
Printed in Japan
© 1992. 6

Published by Customer Relations and Service Group

TA-H7700D

SERVICE MANUAL

AEP Model
E Model
Tourist Model

This set is the Amplifier section in FH-E959, MHC-7700D.

SPECIFICATIONS

Continuous RMS power output
- For satellite speaker:
  - 28 + 28 watts (8 ohms at 1 kHz, DIN)
  - 33 + 33 watts (8 ohms at 1 kHz, 5% THD)
- For bass speaker:
  - 32 + 32 watts (6 ohms at 110 Hz, DIN)
  - 37 + 37 watts (6 ohms at 110 Hz, 5% THD)

Music power output (for AEP, G and IT model)
- For satellite speaker:
  - 50 + 50 watts (8 ohms at 1 kHz, 10% THD)
- For bass speaker:
  - 55 + 55 watts (6 ohms at 110 Hz, 10% THD)

Peak music power output (for E, EA and JE model)
- 700 watts (4 speakers driven)

Inputs
- ADAPTOR (pin jacks) (for E, EA and JE model): sensitivity 260 mV impedance 47 kilohms

Outputs
- HEADPHONES (stereo minijack): accepts headphones of 8 ohms or more
- ADAPTOR (pin jack) (for E, EA and JE model): output level 260 mV impedance 1 kilohm
- SPEAKER (SATELLITE): accepts speakers of 8 to 16 ohms
- SPEAKER (BASS): accepts speakers of 6 to 16 ohms

Design and specifications subject to change without notice.

- G : Germany model
- IT : Italian model
- EA : Saudi Arabia model
- JE : Tourist model

SAFETY-RELATED COMPONENT WARNING!!

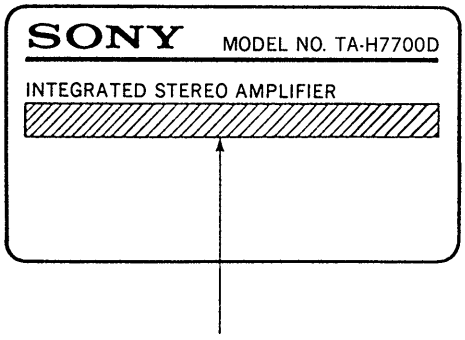
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

INTEGRATED STEREO AMPLIFIER

SONY®

MODEL IDENTIFICATION

— Model Number Label —



AEP model : AC: 220—230V~50/60Hz
Italian model : AC: 220—230V~50Hz
Germany model : SYSTEM MHC-7700D
AC: 220—230V~50Hz
E, EA, JE model: AC: 120/220/240V~50/60Hz 150W

• EA : Saudi Arabia model
JE : Tourist model

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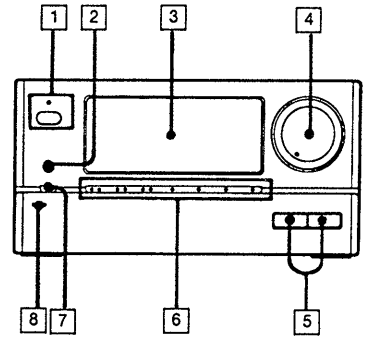
SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION

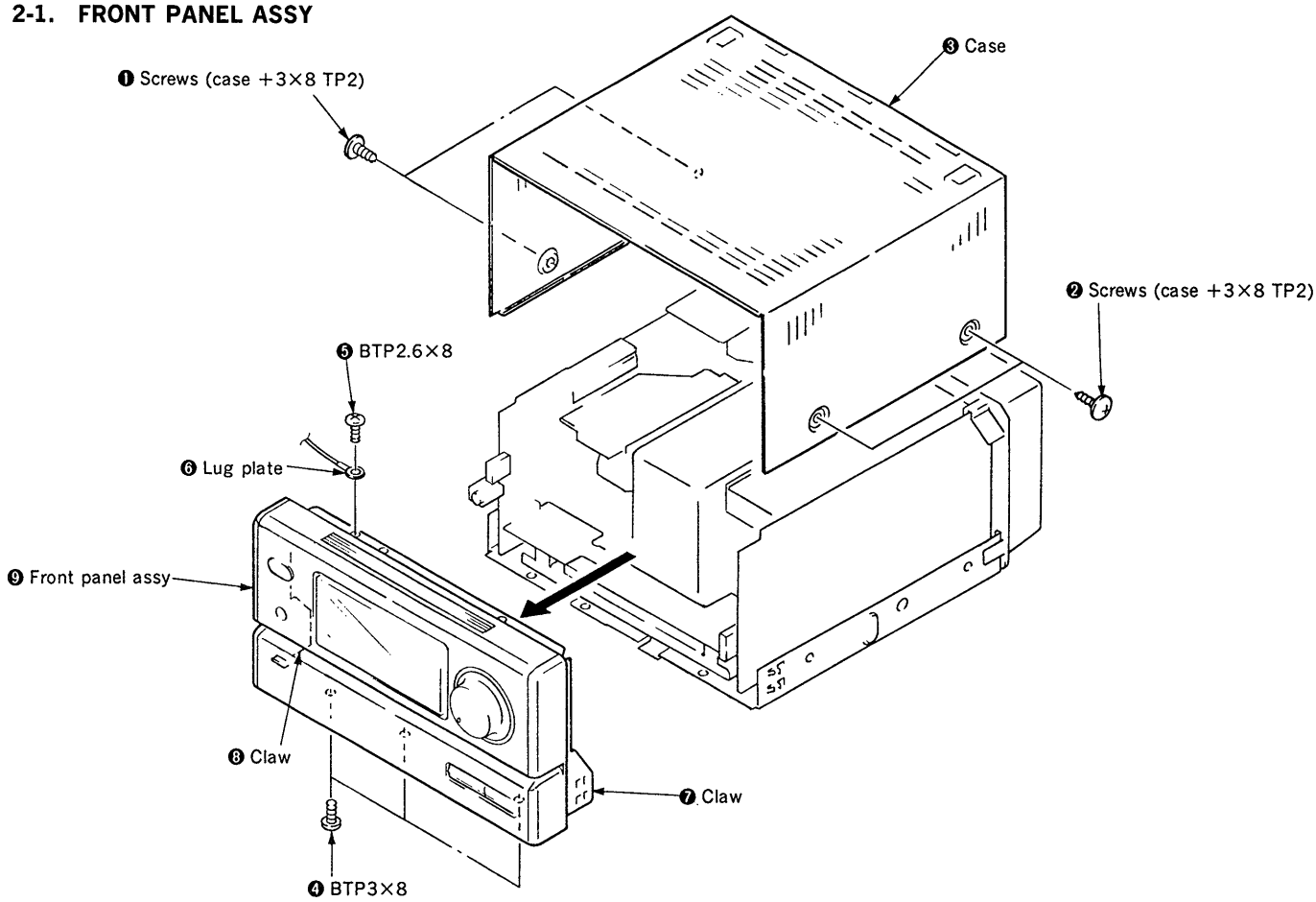
[1] SYSTEM POWER switch and STANDBY indicator
The indicator remains lit as long as the AC power cord is connected to a wall outlet.
[2] HEADPHONES jack (stereo minijack)
[3] Display window
[4] VOLUME control ㉘
[5] VIDEO and AUDIO FUNCTION selectors ㉒ ㊷
[6] Function indicators ㉒ ㊷
[7] WAKE UP VOL SET indicator ㊵
[8] OPEN tab



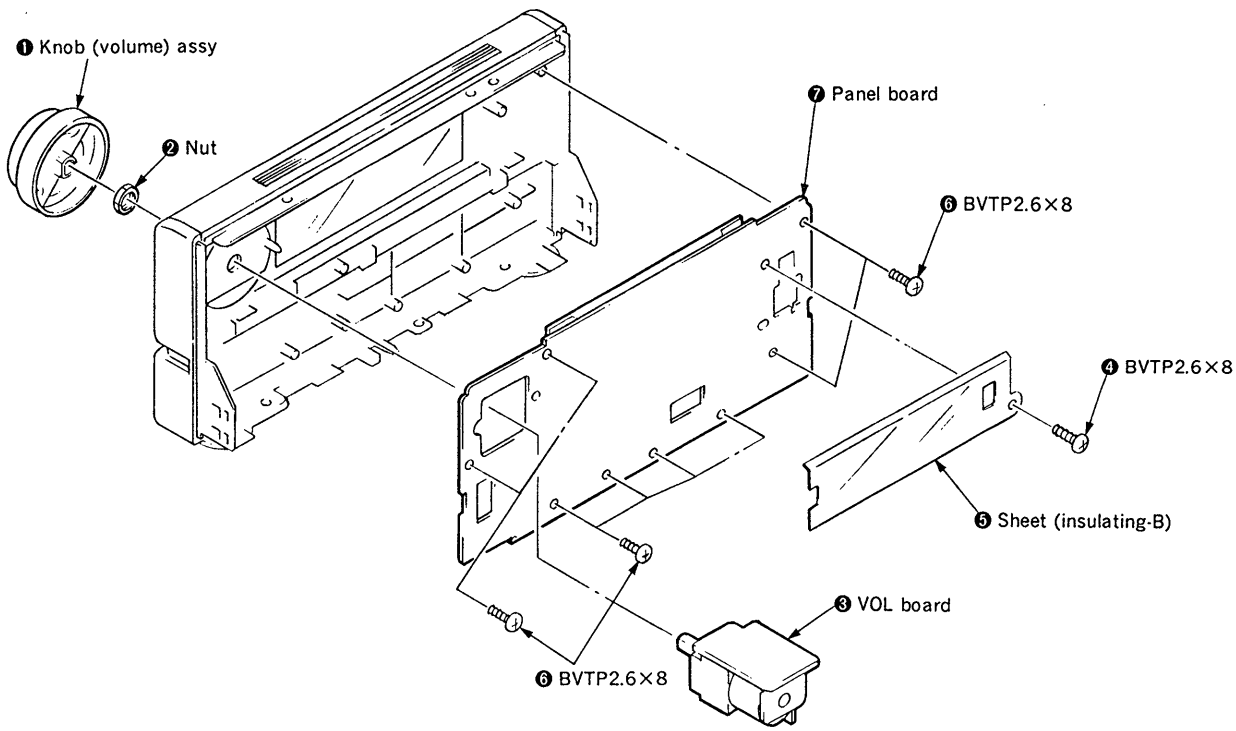
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

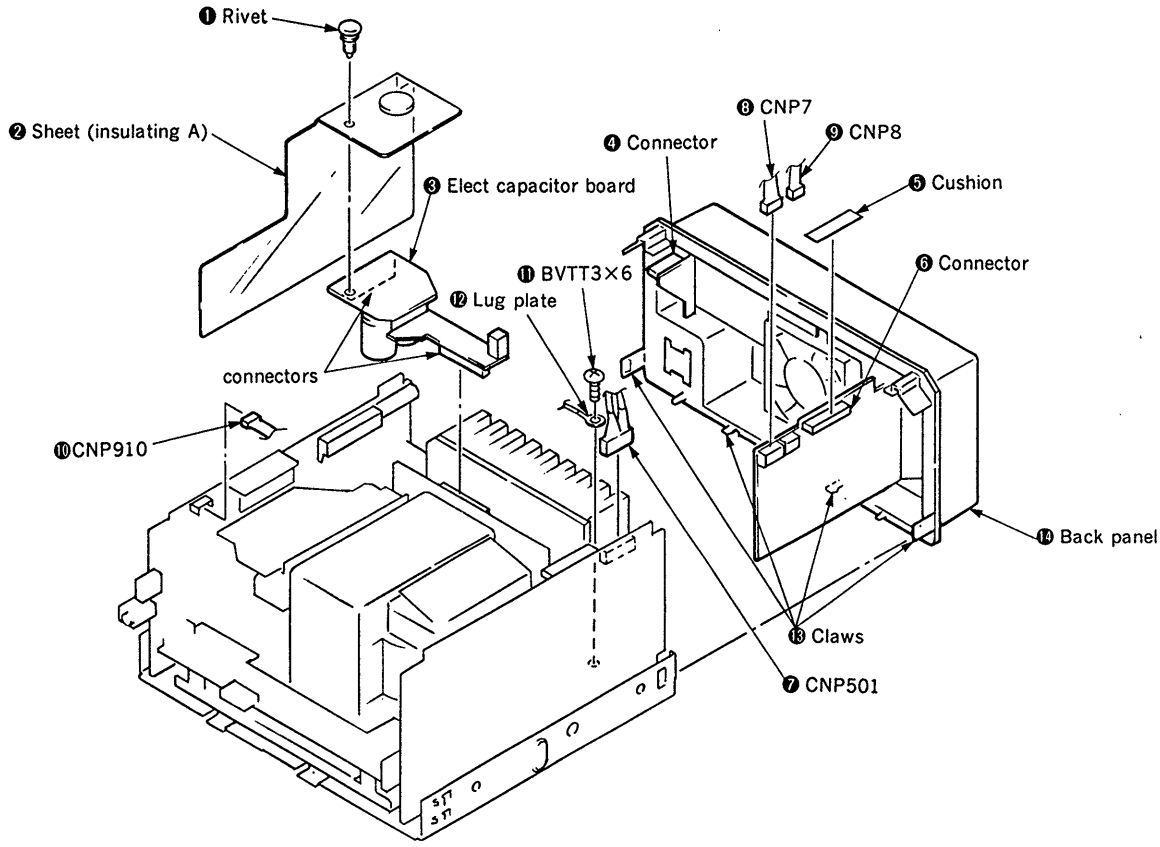
2-1. FRONT PANEL ASSY



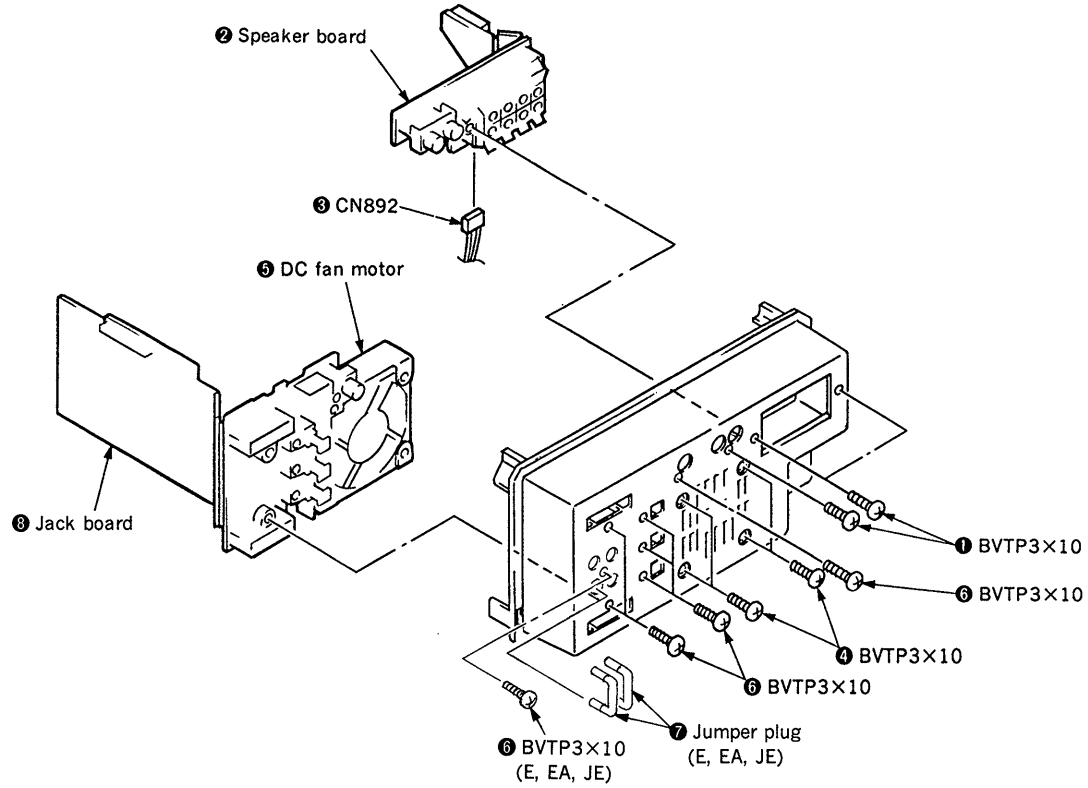
2-2. PANEL BOARD



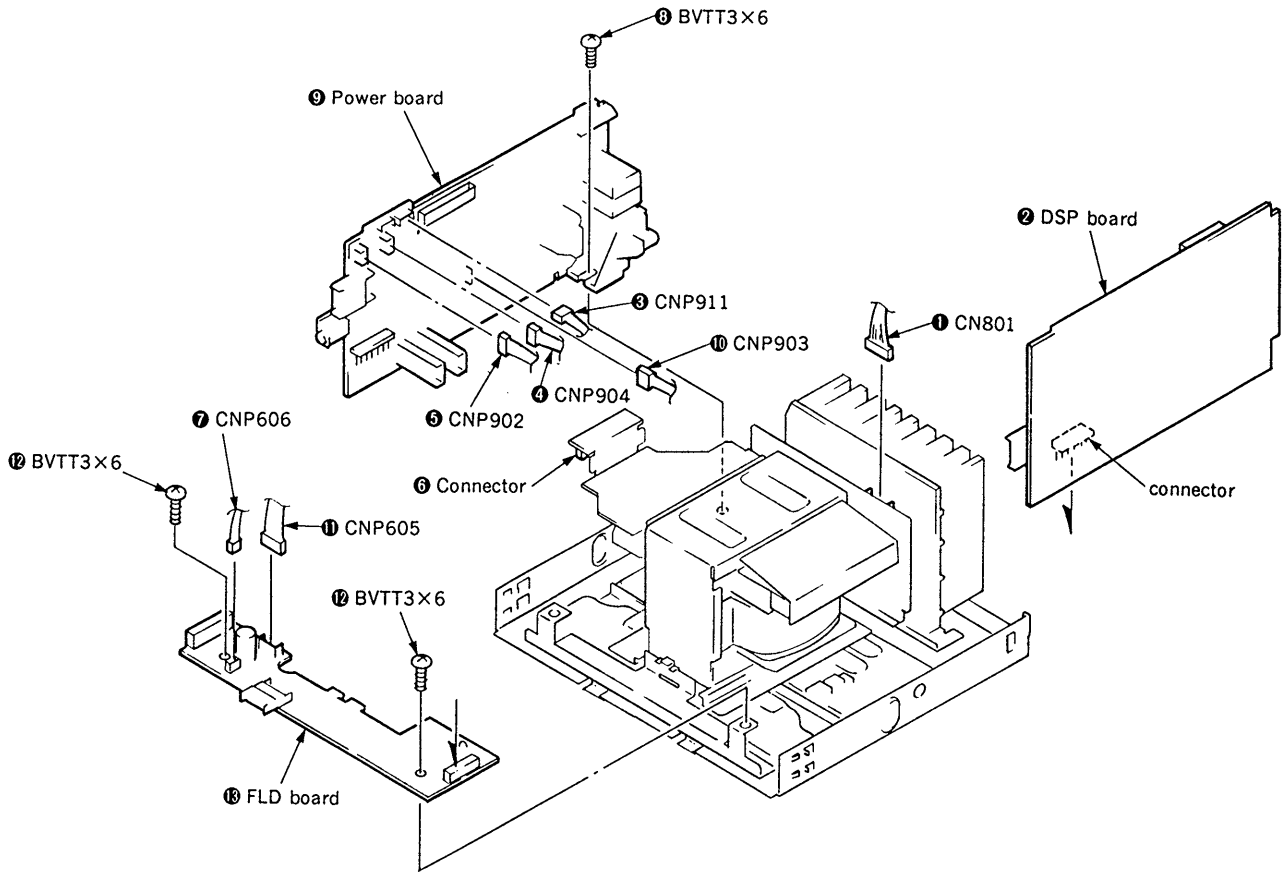
2-3. BACK PANEL



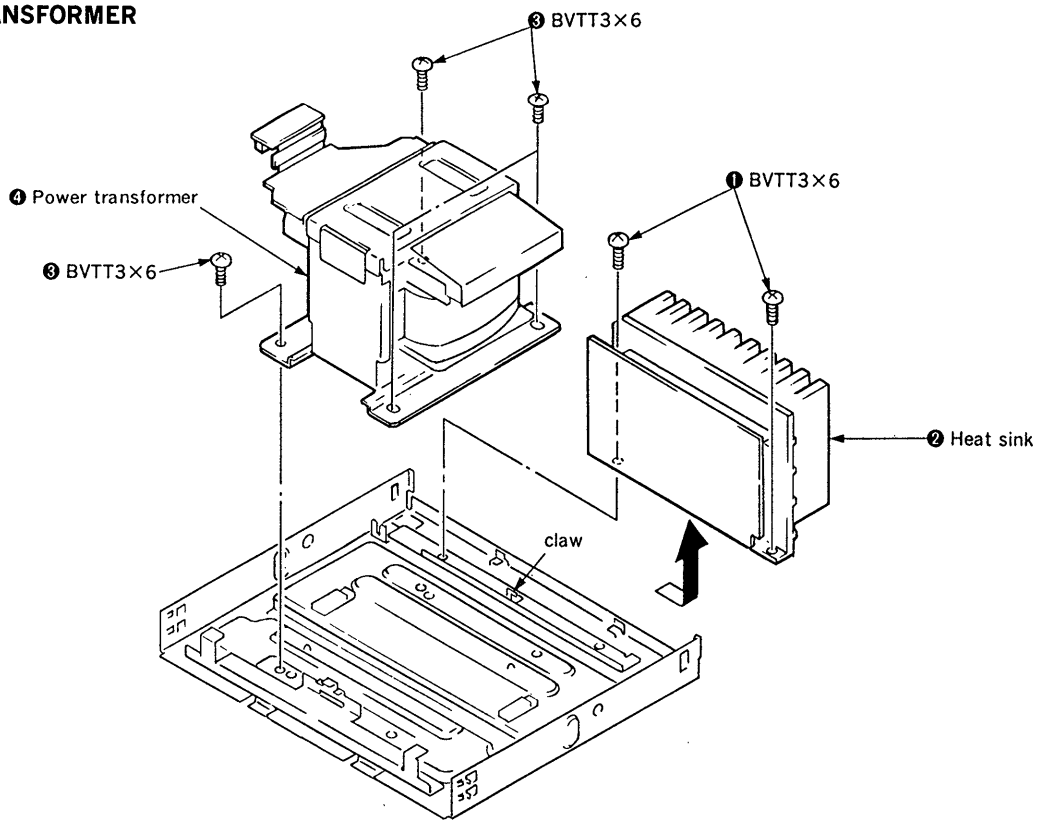
2-4. JACK BOARD, SPEAKER BOARD



2-5. POWER BOARD, DSP BOARD

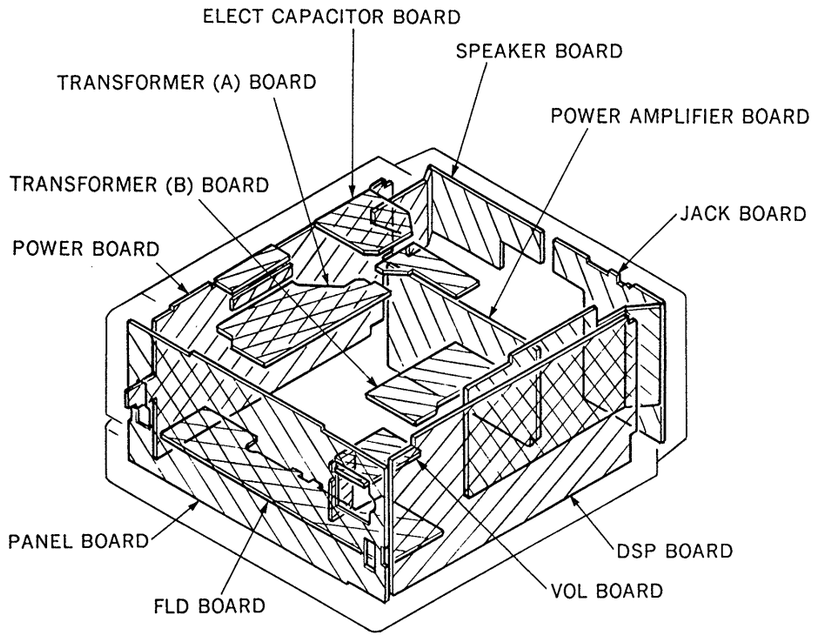


2-6. POWER TRANSFORMER



SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. SEMICONDUCTOR LEAD LAYOUTS

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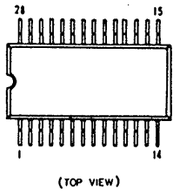

(TOP VIEW)

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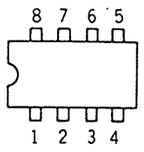

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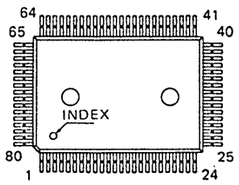
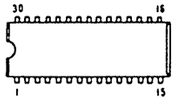


MARKING SIDE VIEW

LC7822



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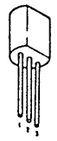

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2.OUTPUT
3.GND

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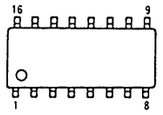
MB625473PF-G



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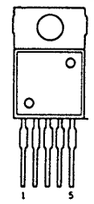

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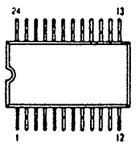

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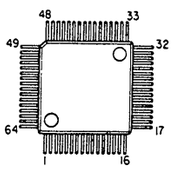

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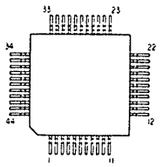

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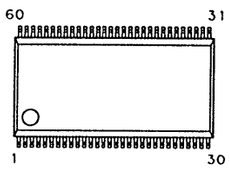

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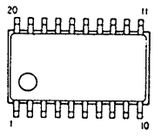

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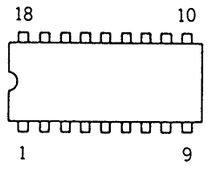

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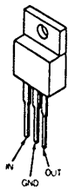

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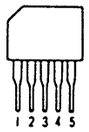

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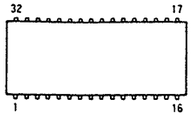

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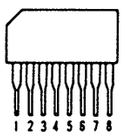

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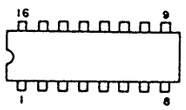

(TOP VIEW)

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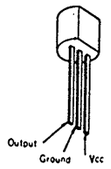

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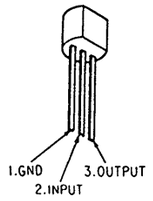

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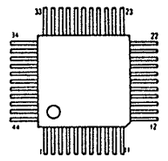

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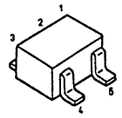

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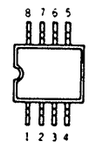

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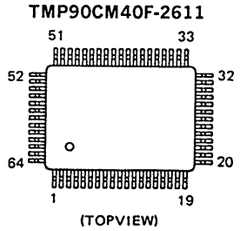

(TOPVIEW)

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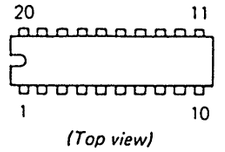

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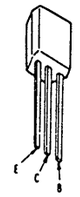

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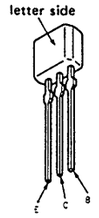

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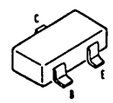
2SC4154



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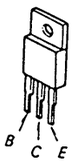

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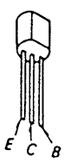
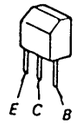
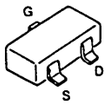
2SD1387
2SD1616A-K



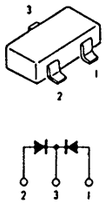
2SC3668-Y



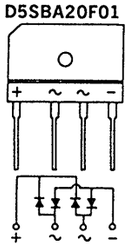
2SK208GR3



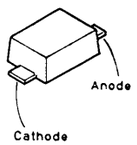
DCB010



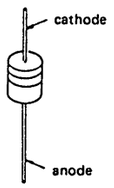
D5SBA20F01



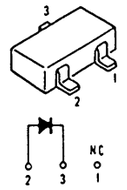
EC10QS-04
MA8056



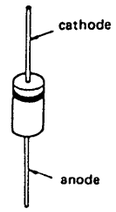
HZS6B1L
HZS30-2L
HZS33-2L
UZL-36M
11ES2



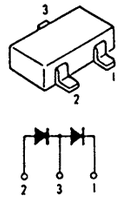
UZM6.2X



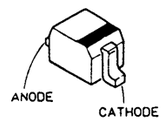
UZP-6.8BC
1N4148M



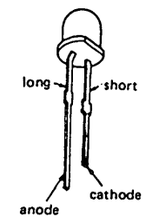
1SS226



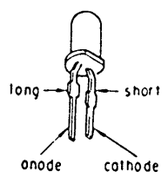
1T363



SEL2210S



SEL2410E-D



TA-H7700D TA-H7700D

● Semiconductor Location

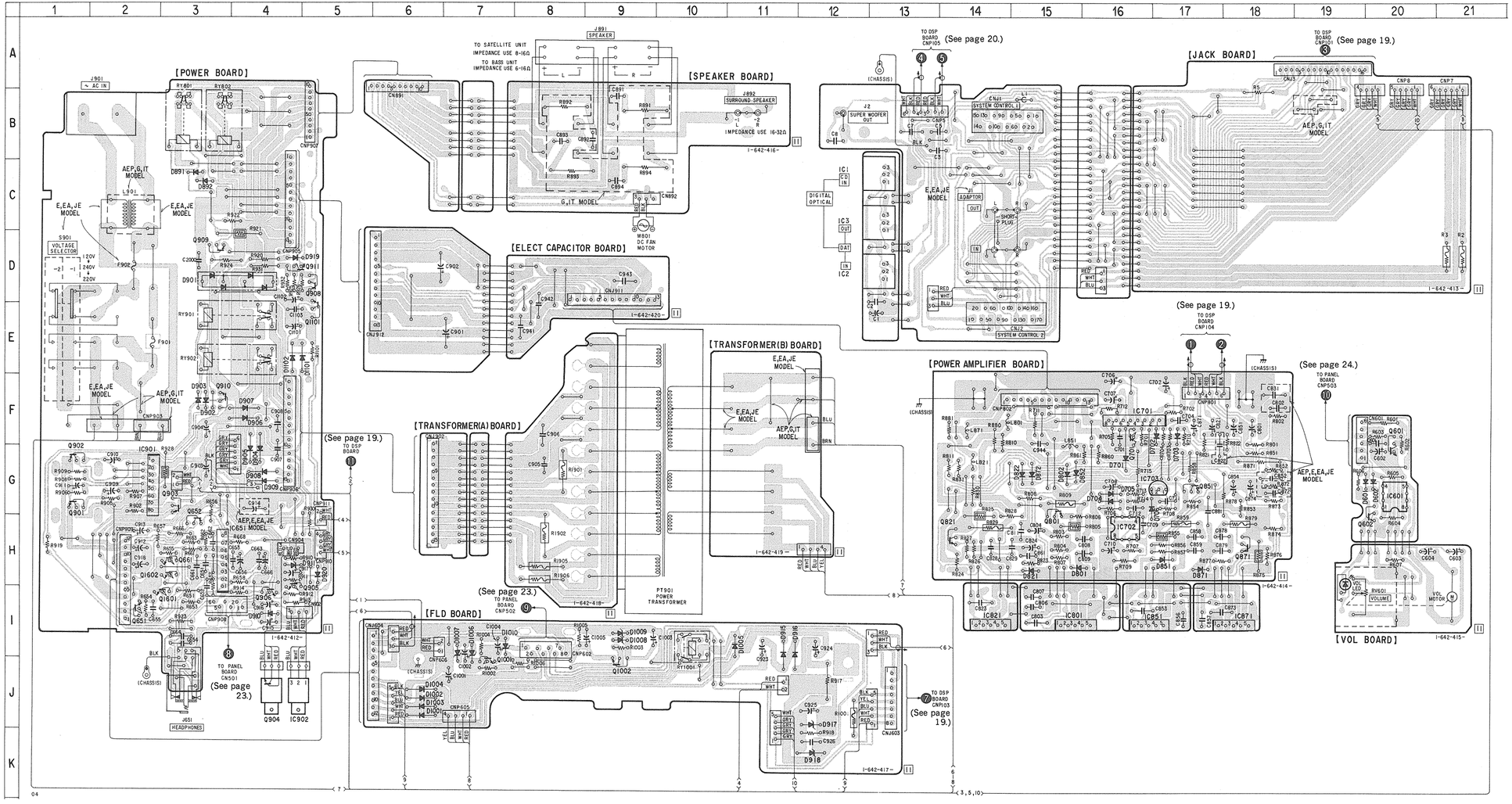
Ref. No.	Location	Ref. No.	Location
D601	G-20	IC1	C-13
D602	G-20	IC2	D-13
D701	G-16	IC3	C-13
D702	F-17	IC601	G-20
D703	F-17	IC651	H-3
D704	G-16	IC701	F-16
D705	G-16	IC702	H-16
D706	G-17	IC703	G-17
D801	H-15	IC801	I-15
D802	G-15	IC821	I-14
D821	H-15	IC851	I-16
D822	G-15	IC871	I-18
D851	H-17	IC901	G-2
D852	G-15	IC902	J-4
D871	H-17		
D872	G-15	Q601	F-20
D891	C-3	Q602	G-20
D892	C-3	Q651	I-2
D901	D-3	Q652	H-3
D902	F-3	Q661	H-3
D903	F-3	Q701	F-16
D904	G-4	Q801	H-15
D905	G-4	Q821	H-14
D906	F-4	Q851	G-17
D907	F-4	Q871	H-18
D908	G-4	Q901	G-1
D909	G-4	Q902	G-1
D910	I-4	Q903	G-3
D911	H-4	Q904	J-4
D915	I-11	Q905	H-4
D916	I-11	Q906	H-4
D917	J-12	Q908	D-5
D918	K-12	Q909	D-3
D919	D-5	Q910	F-3
D920	H-5	Q911	D-5
D1001	J-6	Q1001	J-7
D1002	J-6	Q1002	J-9
D1003	J-6	Q1101	E-5
D1004	J-6	Q1601	I-3
D1005	I-11	Q1602	H-3
D1006	I-7		
D1007	I-7		
D1008	I-9		
D1009	I-9		
D1010	I-7		
D1101	E-4		
D1102	E-4		

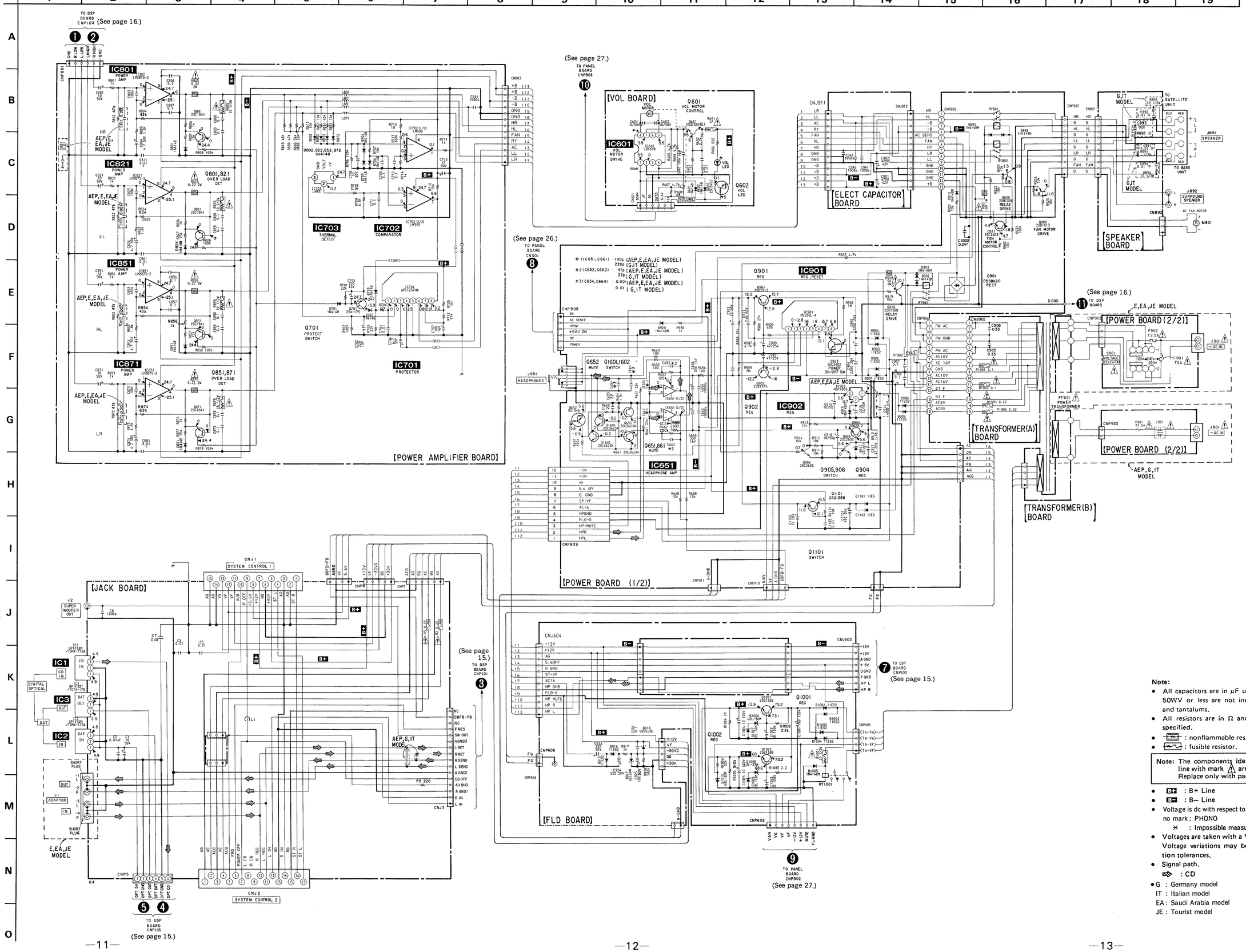
Note:

● ○—— : parts extracted from the component side.

●G : Germany model
IT : Italian model
EA : Saudi Arabia model
JE : Tourist model

3-3. PRINTED WIRING BOARDS — POWER/JACK/VOLUME SECTION — ● Refer to page 6 for Semiconductor Lead Layouts.



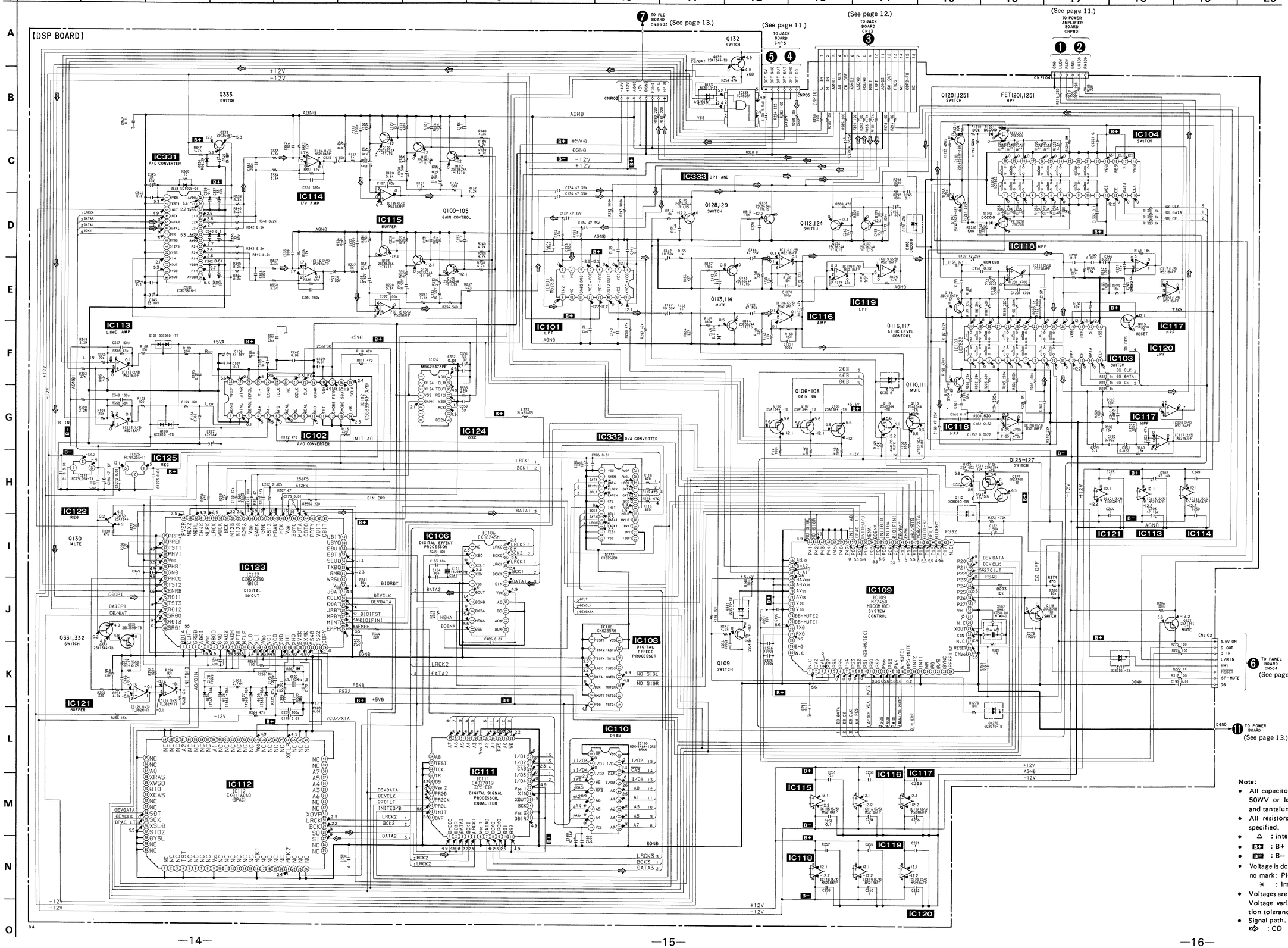


Note:

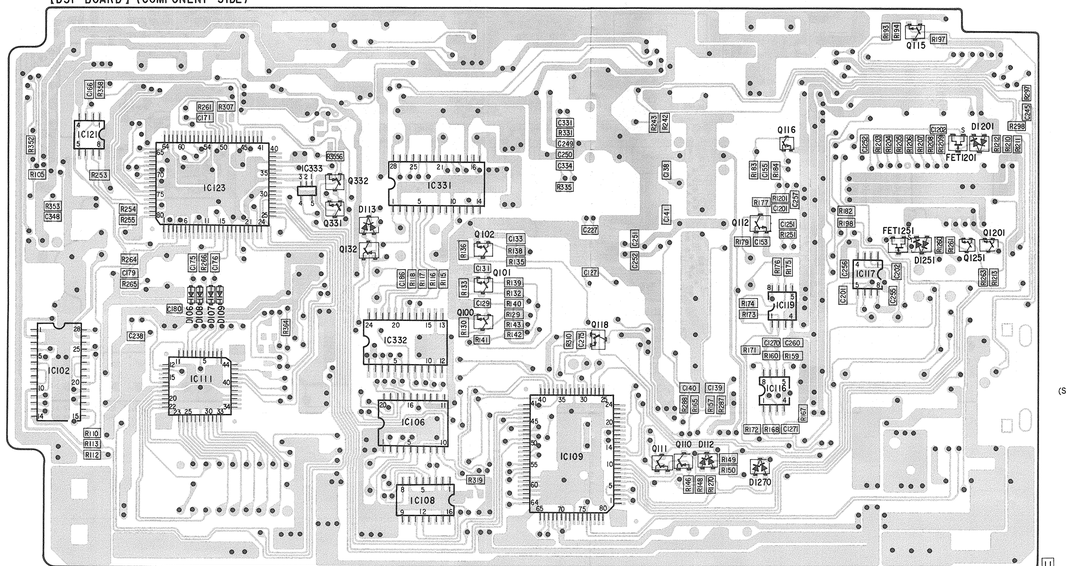
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- B− : B− Line
- Voltage is dc with respect to ground under no-signal conditions. no mark : PHONO
  ✳ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : CD
- G : Germany model
  IT : Italian model
  EA : Saudi Arabia model
  JE : Tourist model

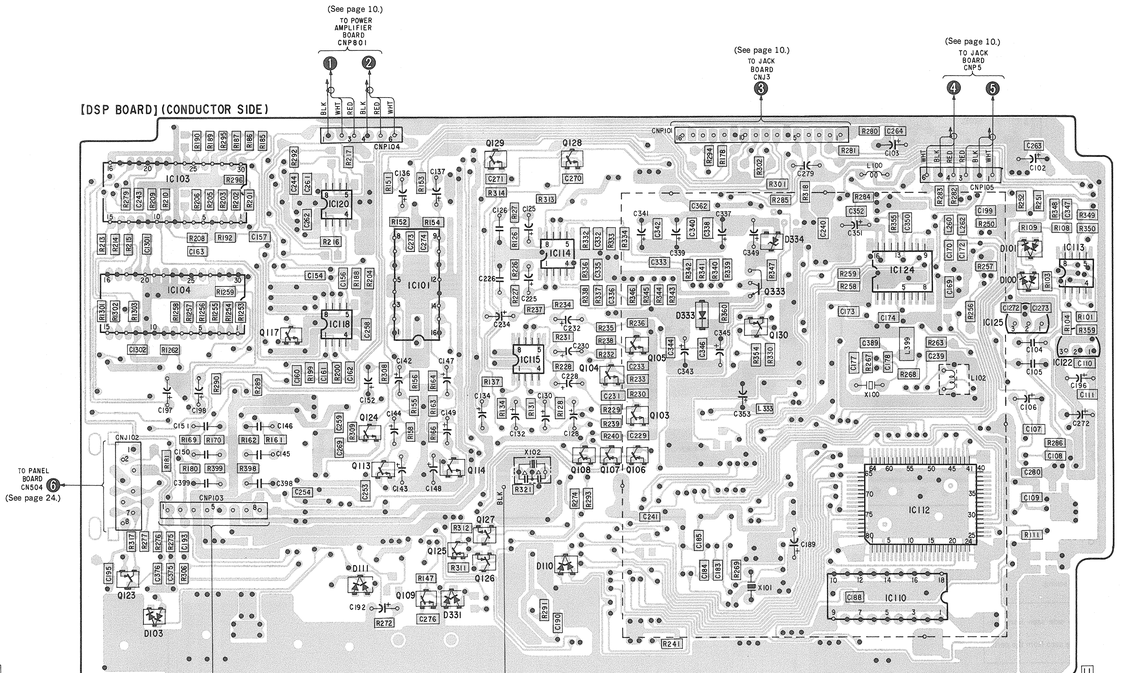

[DSP BOARD]
IC331 A/D CONVERTER
IC114 I/V AMP
IC115 BUFFER
Q100-105 GAIN CONTROL
IC113 LINE AMP
IC102 A/D CONVERTER
IC125 REG
IC122 REG
IC123 DIGITAL IN/OUT
IC121 BUFFER
IC124 OSC
IC332 D/A CONVERTER
IC106 DIGITAL EFFECT PROCESSOR
IC108 DIGITAL EFFECT PROCESSOR
IC111 DIGITAL SIGNAL PROCESSOR, EQUALIZER
IC110 DRAM
IC112
IC101 LPF
IC333 DPT AND
Q128,129 SWITCH
Q112,124 SWITCH
Q113,114 MUTE
IC116 AMP
IC119 LPF
Q116,117 A1 RC LEVEL CONTROL
Q106-108 GAIN SW
Q110,111 MUTE
Q132 SWITCH
Q0333 SWITCH
Q0331,332 SWITCH
Q130 MUTE
Q109 SWITCH
IC109 MICOM (GC) SYSTEM CONTROL
Q0201,1251 SWITCH
FET1201,1251 HPF
IC104 SWITCH
IC118 HPF
IC117 HPF
IC120 LPF
IC103 SWITCH
IC105 SWITCH
IC121 IC113 IC114
IC115 IC116 IC117
IC118 IC119 IC120
(See page 11.) TO POWER AMPLIFIER BOARD CNP801
(See page 11.) TO JACK BOARD CNP5
(See page 12.) TO JACK BOARD CNJ3
(See page 13.) TO FLD BOARD CNJ403
6 TO PANEL BOARD CN504 (See page 26.)
11 TO POWER BOARD (See page 13.)
+12V -12V +5VD DGND AGND B+ B- +5VA
Note:
• All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and ¼W or less unless otherwise specified.
• △ : internal component.
• B+ : B+ Line
• B− : B− Line
• Voltage is dc with respect to ground under no-signal conditions. no mark : PHONO
✳ : Impossible measurement point
• Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
• Signal path.
: CD

[DSP BOARD] (COMPONENT SIDE)



AEP, E, EA, JE MODEL : I-642-536-
G, IT MODEL : I-644-695-

[DSP BOARD] (CONDUCTOR SIDE)



AEP, E, EA, JE MODEL : I-642-536-
G, IT MODEL : I-644-695-

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D100	C-23	IC123	D-3
D101	C-23	IC124	C-21
D103	G-13	IC125	D-23
D106	E-3	IC331	D-5
D107	E-3	IC332	E-5
D108	E-3	IC333	D-4
D109	E-3		
D110	F-18	Q100	E-6
D111	G-16	Q101	E-6
D112	G-8	Q102	D-6
D113	D-4	Q103	E-18
D331	G-16	Q104	D-18
D333	D-19	Q105	D-18
D334	C-20	Q106	E-18
D1201	C-11	Q107	E-18
D1251	D-10	Q108	E-18
D1270	G-9	Q109	G-16
		Q110	G-8
FET1201	C-11	Q111	G-8
FET1251	D-10	Q112	D-9
		Q113	E-16
IC101	D-16	Q114	E-16
IC102	F-1	Q115	B-10
IC103	C-14	Q116	C-9
IC104	D-14	Q117	D-15
IC106	F-5	Q118	E-7
IC108	G-5	Q123	G-13
IC109	F-7	Q124	E-16
IC110	G-21	Q125	F-17
IC111	F-3	Q126	F-17
IC112	F-21	Q127	F-17
IC113	C-23	Q128	B-18
IC114	C-18	Q129	B-17
IC115	D-17	Q130	D-20
IC116	F-9	Q132	D-4
IC117	E-10	Q331	D-4
IC118	D-15	Q332	D-4
IC119	E-9	Q333	C-20
IC120	C-15	Q1201	D-11
IC121	C-2	Q1251	D-11
IC122	D-23		

Note:

- ◇——— : parts extracted from the component side.
- ● ● : Through hole.
- ▨ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component side)	Parts on the parts face side seen from the parts face are indicated.

● G : Germany model
IT : Italian model
EA : Saudi Arabia model
JE : Tourist model

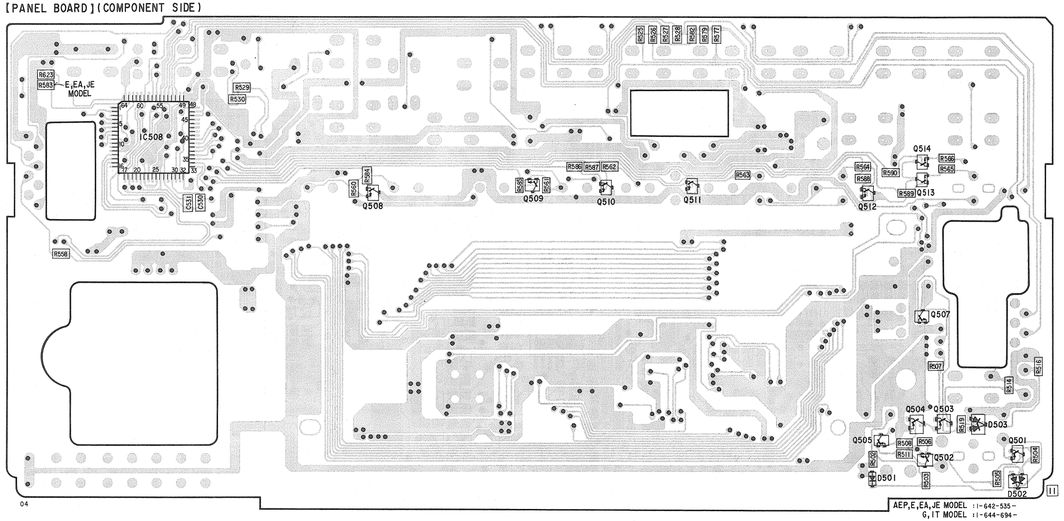
TA-H7700D TA-H7700D

● Semiconductor Location

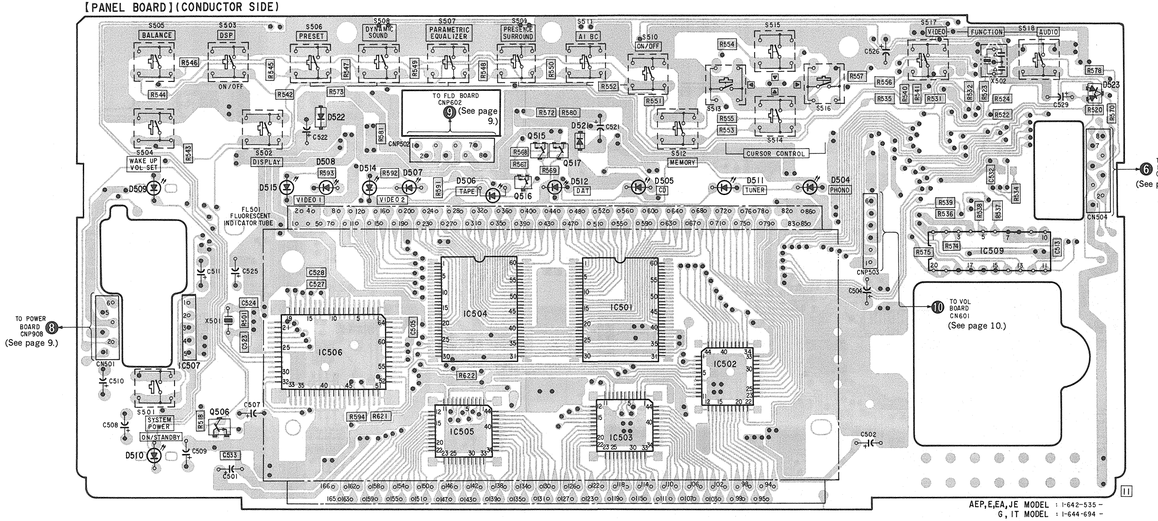
Ref. No.	Location
D501	F-11
D502	F-13
D503	F-12
D504	C-22
D505	C-20
D506	C-19
D507	C-18
D508	C-17
D509	C-15
D510	F-15
D511	C-21
D512	C-19
D514	C-17
D515	C-16
D521	C-20
D522	B-17
D523	B-25
IC501	D-20
IC502	E-21
IC503	F-20
IC504	D-18
IC505	F-18
IC506	E-17
IC507	E-15
IC508	C-3
IC509	D-24
Q501	F-13
Q502	F-11
Q503	F-12
Q504	F-11
Q505	F-11
Q506	F-15
Q507	E-11
Q508	C-5
Q509	C-7
Q510	C-8
Q511	C-9
Q512	C-11
Q513	C-11
Q514	C-11
Q515	C-19
Q516	C-19
Q517	C-19

3-7. PRINTED WIRING BOARD — PANEL SECTION — ● Refer to page 6 for Semiconductor Lead Layouts.

[PANEL BOARD] (COMPONENT SIDE)



[PANEL BOARD] (CONDUCTOR SIDE)



Note:
- ● : Through hole.
- ▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor side) Parts on the pattern face side seen from the pattern face are indecated.
Parts face side: (Component side) Parts on the parts face side seen from the parts face are indecated.

- ●G : Germany model
  IT : Italian model
  EA : Saudi Arabia model
  JE : Tourist model

【PANEL BOARD】

CURSOR CONTROL									
S501	S503	S505	S507	S509	S511	S513	S515	S517
SYSTEM POWER	DSP	BALANCE	PARAMETRIC EQUALIZER	PRESENCE SURROUND	A1 BC	◀	▼	VIDEO
S502	S504	S506	S508	S510	S512	S514	S516	S518
DISPLAY	WAKE UP VOL SET	PRESET	DYNAMIC SOUND	ON/OFF	MEMORY	▲	▶	AUDIO

D504	PHONO
D505	CD
D506	TAPE
D507	VIDEO2-RED
D508	VIDEO1-RED
D509	WAKE UP VOL SET
D510	ON/STANDBY
D511	TUNER
D512	BAT
D513	-
D514	VIDEO2-GREEN
D515	VIDEO1-GREEN

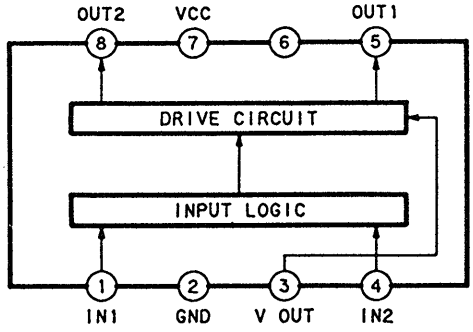
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- B− : B− Line
- Voltage is dc with respect to ground under no-signal conditions. no mark : PHONO
  - ✳ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

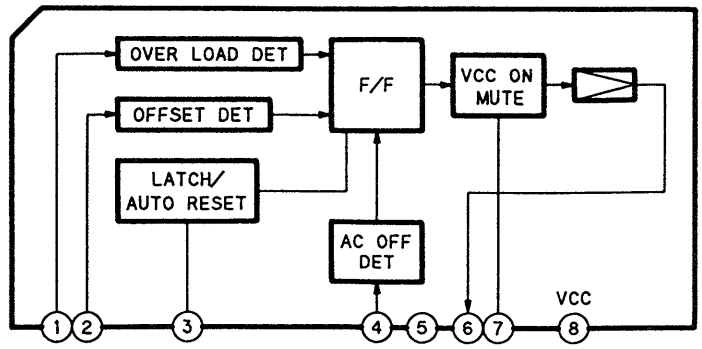
6 TO DSP BOARD CNJI02 (See page 16.)
8 TO POWER BOARD CNP908 (See page 12.)
9 TO FLD BOARD CNP602 (See page 12.)
10 TO VOL BOARD CN601 (See page 12.)

• IC Block Diagrams

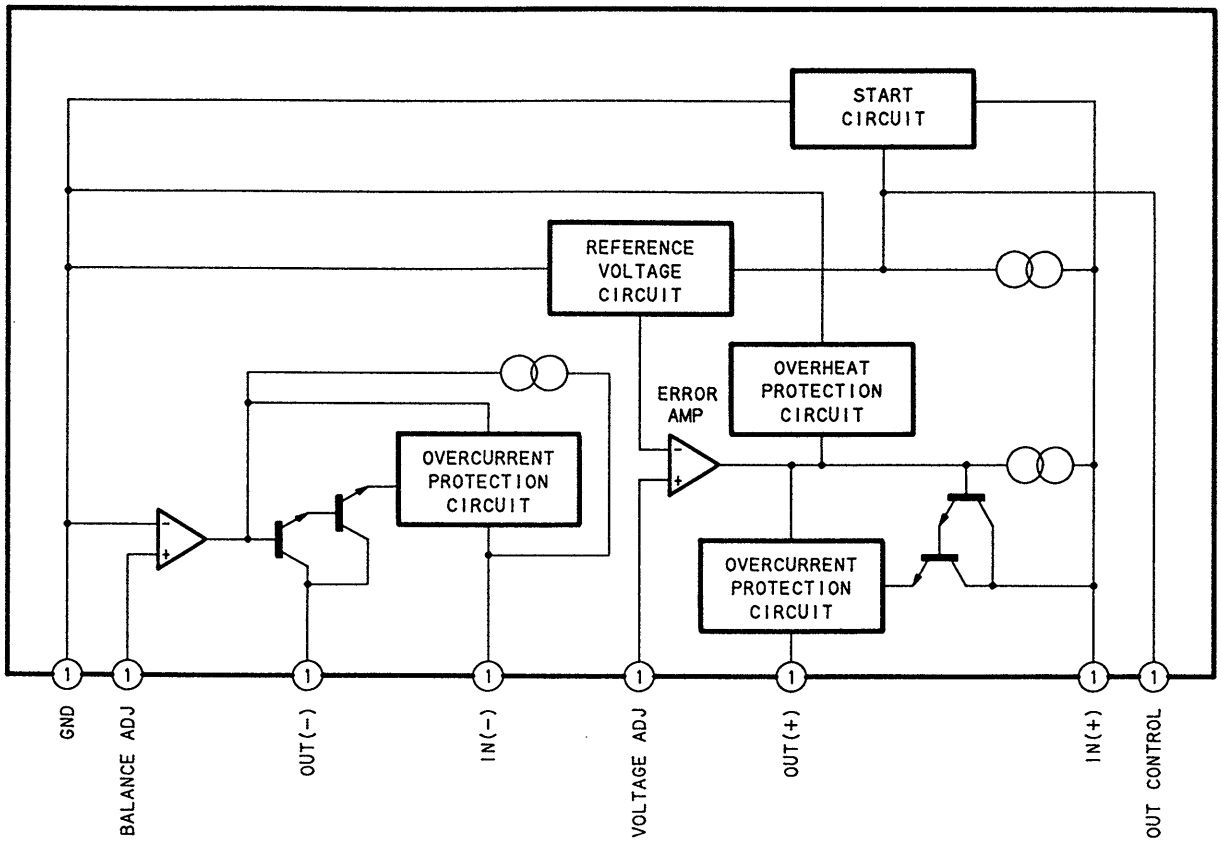
IC601 LB1639



IC701 μPC1237HA



IC901 M5230L-A



SECTION 4
EXPLODED VIEWS

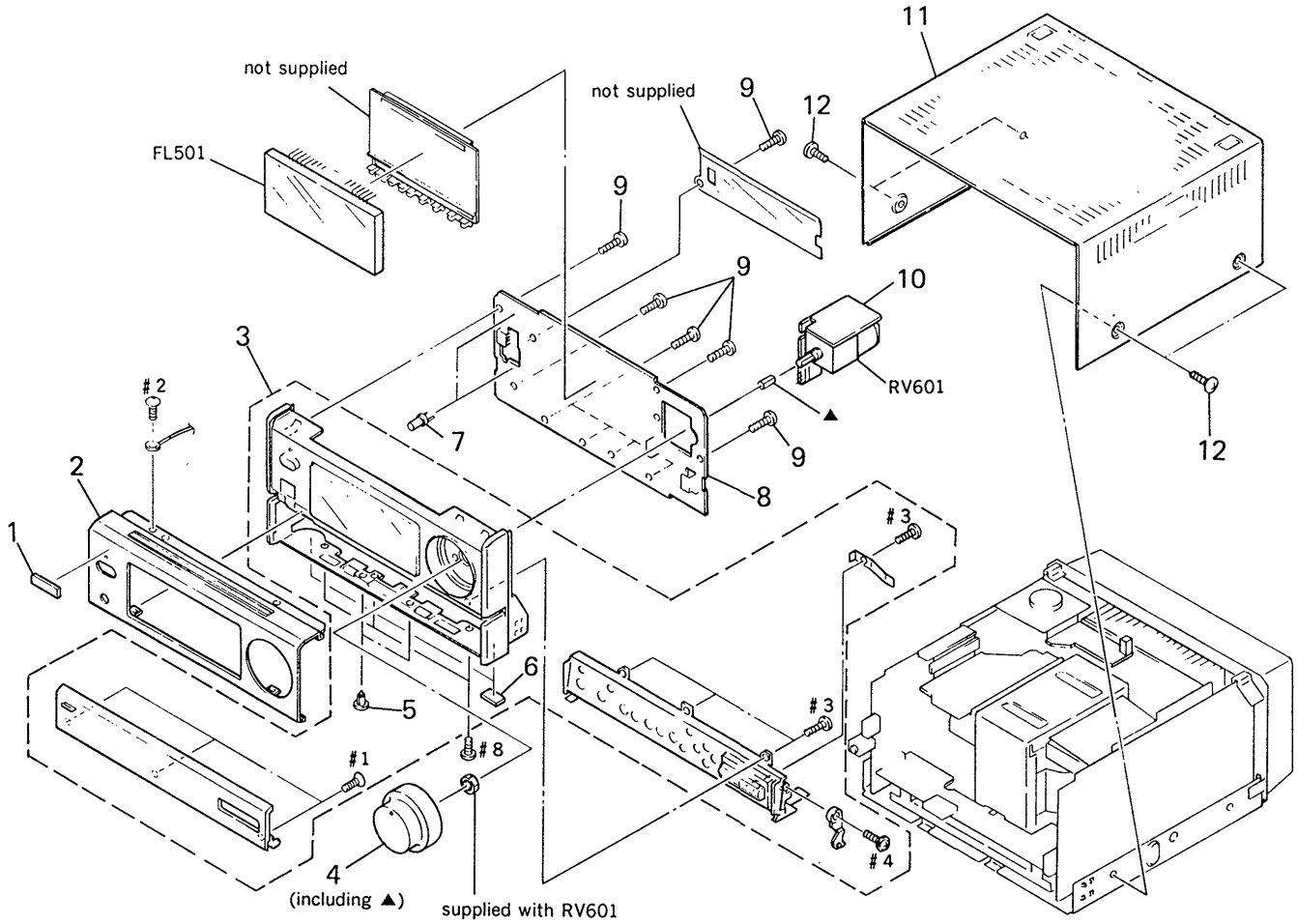
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

- EA : Saudi Arabia model
- JE : Tourist model
- G : Germany model
- IT : Italian model

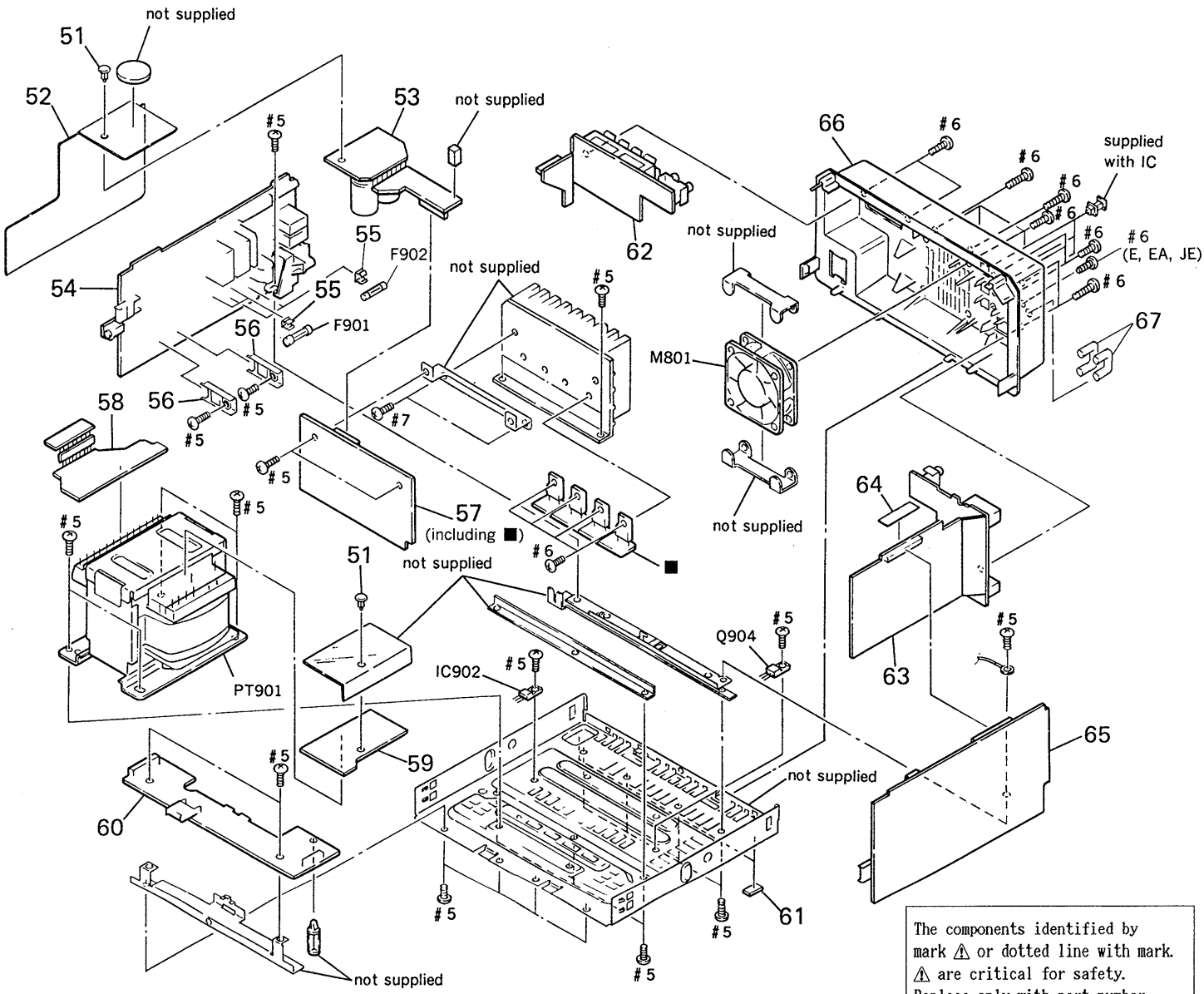
4-1. FRONT PANEL ASSY



Ref. No.	Part No.	Description	Remark
1	4-942-636-11	EMBLEM (NO. 3.5), SONY	
2	X-4942-476-2	PANEL ASSY, FRONT	
3	X-4942-468-2	PANEL (BASE) ASSY (E, EA, JE)	
3	X-4942-470-2	PANEL (BASE) ASSY (AEP, G, IT)	
4	X-4942-478-1	KNOB (VOLUME) ASSY	
5	4-812-134-00	RIVET NYLON, 3.5	
6	4-930-336-21	FOOT (FELT)	
* 7	3-362-478-21	HOLDER (T), LED	

Ref. No.	Part No.	Description	Remark
* 8	A-4347-005-A	PANEL BOARD, COMPLETE (E, EA, JE)	
* 8	A-4347-015-A	PANEL BOARD, COMPLETE (AEP)	
* 8	A-4356-137-A	PANEL BOARD, COMPLETE (G, IT)	
9	4-951-620-01	SCREW (2.6X8), +BVTP	
* 10	1-642-415-11	VOL BOARD	
* 11	4-932-841-71	CASE	
12	3-363-099-01	SCREW (CASE +3X8 TP2)	
FL501	1-519-654-11	INDICATOR TUBE, FLUORESCENT	
RV601	1-241-803-11	RES, VAR, CARBON (WITH MOTOR) 10K (VOLUME)	

4-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	4-812-134-11	RIVET NYLON, 3.5	
* 52	4-945-055-11	SHEET (INSULATING A)	
* 53	1-642-420-11	ELECT CAPACITOR BOARD	
* 54	A-4347-007-A	POWER BOARD, COMPLETE (AEP)	
* 54	A-4347-012-A	POWER BOARD, COMPLETE (G, IT)	
* 54	A-4347-019-A	POWER BOARD, COMPLETE (E, EA, JE)	
* 55	1-533-213-31	HOLDER, FUSE	
* 56	3-309-144-21	HEAT SINK	
* 57	A-4347-010-A	POWER AMPLIFIER BOARD, COMPLETE (AEP)	
* 57	A-4347-013-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)	
* 57	A-4347-021-A	POWER AMPLIFIER BOARD, COMPLETE (E, EA, JE)	
* 58	1-642-418-11	TRANSFORMER (A) BOARD	
* 59	1-642-419-11	TRANSFORMER (B) BOARD	
* 60	A-4345-999-A	FLD BOARD, COMPLETE	
61	4-930-336-21	FOOT (FELT)	
* 62	1-642-416-11	SPEAKER BOARD	
* 63	1-642-413-11	JACK BOARD	
64	4-860-518-00	CUSHION	
* 65	A-4347-003-A	DSP BOARD, COMPLETE (AEP, E, EA, JE)	
* 65	A-4356-123-A	DSP BOARD, COMPLETE (G, IT)	
* 66	4-948-766-11	PANEL, BACK (AEP, G, IT)	
* 66	4-948-766-31	PANEL, BACK (E, EA, JE)	
67	1-535-706-11	PLUG, JUMPER (E, EA, JE)	
⚠F901	1-532-286-00	FUSE, TIME-LAG (T2.5A) (AEP, G, IT)	
⚠F901	1-532-299-00	FUSE, TIME-LAG (T5A) (E, EA, JE)	
⚠F902	1-532-286-00	FUSE, TIME-LAG (T2.5A) (E, EA, JE)	
IC902	8-759-231-53	IC M5F7805L	
M801	1-541-860-11	MOTOR, DC FAN	
⚠PT901	1-450-882-11	TRANSFORMER, POWER (E, EA, JE)	
⚠PT901	1-450-883-11	TRANSFORMER, POWER (AEP, G, IT)	
Q904	8-729-209-15	TRANSISTOR 2SD2012	

SECTION 5
ELECTRICAL PARTS LIST

DSP PANEL

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

- EA : Saudi Arabia model
- JE : Tourist model
- G : Germany model
- IT : Italian model

Ref. No.	Part No.	Description				Remark
*	A-4347-003-A	DSP BOARD, COMPLETE (AEP, E, EA, JE)				
*	A-4356-123-A	DSP BOARD, COMPLETE (G, IT)				
		**********				
*	A-4347-005-A	PANEL BOARD, COMPLETE (E, EA, JE)				
*	A-4347-015-A	PANEL BOARD, COMPLETE (AEP)				
*	A-4356-137-A	PANEL BOARD, COMPLETE (G, IT)				
		**********				
*	3-362-478-21	HOLDER (T), LED				
		< CAPACITOR >				
C102	1-124-589-11	ELECT	47uF	20%	16V	
C103	1-124-589-11	ELECT	47uF	20%	16V	
C104	1-136-153-00	FILM	0.01uF	5%	50V	
C105	1-136-153-00	FILM	0.01uF	5%	50V	
C106	1-124-589-11	ELECT	47uF	20%	16V	
C107	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C110	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C111	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C125	1-124-915-11	ELECT	10uF	20%	63V	
C126	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C127	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C128	1-124-915-11	ELECT	10uF	20%	63V	
C129	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C130	1-124-915-11	ELECT	10uF	20%	63V	
C131	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C132	1-124-915-11	ELECT	10uF	20%	63V	
C133	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C134	1-126-947-11	ELECT	47uF	20%	35V	
C136	1-126-947-11	ELECT	47uF	20%	35V	
C137	1-126-947-11	ELECT	47uF	20%	35V	
C138	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C139	1-164-346-11	CERAMIC CHIP	1uF		16V	
C140	1-164-346-11	CERAMIC CHIP	1uF		16V	
C141	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C142	1-124-915-11	ELECT	10uF	20%	63V	
C143	1-126-162-11	ELECT	3.3uF	20%	50V	
C144	1-126-947-11	ELECT	47uF	20%	35V	
C145	1-136-157-00	FILM	0.022uF	5%	50V	
C146	1-136-157-00	FILM	0.022uF	5%	50V	
C147	1-124-915-11	ELECT	10uF	20%	63V	
C148	1-126-162-11	ELECT	3.3uF	20%	50V	
C149	1-126-947-11	ELECT	47uF	20%	35V	
C150	1-136-157-00	FILM	0.022uF	5%	50V	
C151	1-136-157-00	FILM	0.022uF	5%	50V	
C152	1-126-947-11	ELECT	47uF	20%	35V	
C153	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C154	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C155	1-164-346-11	CERAMIC CHIP	1uF		16V	
C156	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	
C157	1-164-346-11	CERAMIC CHIP	1uF		16V	
C160	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C161	1-164-346-11	CERAMIC CHIP	1uF		16V	
C162	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	
C163	1-164-346-11	CERAMIC CHIP	1uF		16V	
C166	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C169	1-164-346-11	CERAMIC CHIP	1uF		16V	
C170	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C171	1-163-227-11	CERAMIC CHIP	10PF	5%	50V	
C172	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C173	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C174	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C175	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C176	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C178	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C179	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C180	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C183	1-163-227-11	CERAMIC CHIP	10PF	5%	50V	
C184	1-163-227-11	CERAMIC CHIP	10PF	5%	50V	
C185	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C186	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C188	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C189	1-124-589-11	ELECT	47uF	20%	16V	
C190	1-164-346-11	CERAMIC CHIP	1uF		16V	
C192	1-124-902-00	ELECT	0.47uF	20%	50V	
C193	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C195	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C196	1-124-589-11	ELECT	47uF	20%	16V	
C197	1-126-947-11	ELECT	47uF	20%	35V	

DSP PANEL

Ref. No.	Part No.	Description			Remark
C198	1-126-947-11	ELECT	47uF	20%	35V
C199	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C201	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C202	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C225	1-124-915-11	ELECT	10uF	20%	63V
C226	1-130-475-00	MYLAR	0.0022uF	5%	50V
C227	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C228	1-124-915-11	ELECT	10uF	20%	63V
C229	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C230	1-124-915-11	ELECT	10uF	20%	63V
C231	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C232	1-124-915-11	ELECT	10uF	20%	63V
C233	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C234	1-126-947-11	ELECT	47uF	20%	35V
C238	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C239	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C240	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C241	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C243	1-164-345-11	CERAMIC CHIP	0.082uF	10%	25V
C244	1-164-345-11	CERAMIC CHIP	0.082uF	10%	25V
C245	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C249	1-164-346-11	CERAMIC CHIP	1uF		16V
C250	1-164-346-11	CERAMIC CHIP	1uF		16V
C251	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C252	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C253	1-164-346-11	CERAMIC CHIP	1uF		16V
C254	1-164-346-11	CERAMIC CHIP	1uF		16V
C255	1-164-346-11	CERAMIC CHIP	1uF		16V
C256	1-164-346-11	CERAMIC CHIP	1uF		16V
C257	1-164-346-11	CERAMIC CHIP	1uF		16V
C258	1-164-346-11	CERAMIC CHIP	1uF		16V
C259	1-164-346-11	CERAMIC CHIP	1uF		16V
C260	1-164-346-11	CERAMIC CHIP	1uF		16V
C261	1-164-346-11	CERAMIC CHIP	1uF		16V
C262	1-164-346-11	CERAMIC CHIP	1uF		16V
C263	1-164-346-11	CERAMIC CHIP	1uF		16V
C264	1-164-346-11	CERAMIC CHIP	1uF		16V
C269	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C270	1-164-346-11	CERAMIC CHIP	1uF		16V
C271	1-164-346-11	CERAMIC CHIP	1uF		16V
C272	1-124-589-11	ELECT	47uF	20%	16V
C273	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C274	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C275	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C276	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C279	1-126-163-11	ELECT	4.7uF	20%	50V
C280	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C331	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C332	1-163-123-00	CERAMIC CHIP	180PF	5%	50V

Ref. No.	Part No.	Description			Remark
C333	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C334	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C335	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C336	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C337	1-124-229-00	ELECT	33uF	20%	10V
C338	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C339	1-124-229-00	ELECT	33uF	20%	10V
C340	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C341	1-124-229-00	ELECT	33uF	20%	10V
C342	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C343	1-124-229-00	ELECT	33uF	20%	10V
C344	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C345	1-124-229-00	ELECT	33uF	20%	10V
C346	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C347	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C348	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C349	1-126-157-11	ELECT	10uF	20%	16V
C350	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C351	1-124-229-00	ELECT	33uF	20%	10V
C352	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C353	1-124-229-00	ELECT	33uF	20%	10V
C362	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C375	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C376	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C389	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C398	1-136-165-00	FILM	0.1uF	5%	50V
C399	1-136-165-00	FILM	0.1uF	5%	50V
C501	1-124-667-11	ELECT	10uF	20%	100V
C502	1-124-667-11	ELECT	10uF	20%	100V
C504	1-124-667-11	ELECT	10uF	20%	100V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C507	1-126-157-11	ELECT	10uF	20%	16V
C508	1-124-589-11	ELECT	47uF	20%	16V
C509	1-126-163-11	ELECT	4.7uF	20%	50V
C510	1-126-301-11	ELECT	1uF	20%	50V
C511	1-126-163-11	ELECT	4.7uF	20%	50V
C513	1-163-124-00	CERAMIC CHIP	200PF	5%	50V
C521	1-124-589-11	ELECT	47uF	20%	16V
C522	1-124-589-11	ELECT	47uF	20%	16V
C523	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C524	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C525	1-126-176-11	ELECT	220uF	20%	10V
C526	1-126-157-11	ELECT	10uF	20%	16V
C527	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C528	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C529	1-124-234-00	ELECT	22uF	20%	16V
C530	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C531	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C532	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

DSP **PANEL**

Ref. No.	Part No.	Description			Remark
C1201	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1202	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C1251	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C1252	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C1270	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1271	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C1272	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C1273	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C1301	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
* CN501	1-568-318-11	PLUG, CONNECTOR 6P			
* CN504	1-568-320-11	PLUG, CONNECTOR 8P			
CNJ102	1-568-319-11	SOCKET, CONNECTOR 8P			
CNP101	1-566-144-11	CONNECTOR, BOARD TO BOARD 16P			
CNP103	1-573-146-11	PLUG, CONNECTOR 8P			
* CNP104	1-564-509-11	PLUG, CONNECTOR 6P			
* CNP105	1-564-521-11	PLUG, CONNECTOR 6P			
* CNP502	1-568-320-11	PLUG, CONNECTOR 8P			
CNP503	1-561-115-00	SOCKET, CONNECTOR 6P			
		< DIODE >			
D100	8-719-800-76	DIODE	1SS226		
D101	8-719-800-76	DIODE	1SS226		
D103	8-719-800-76	DIODE	1SS226		
D106	8-719-002-81	DIODE	1T363		
D107	8-719-002-81	DIODE	1T363		
D108	8-719-002-81	DIODE	1T363		
D109	8-719-002-81	DIODE	1T363		
D110	8-719-990-39	DIODE	DCB010		
D111	8-719-990-39	DIODE	DCB010		
D112	8-719-990-39	DIODE	DCB010		
D113	8-719-990-39	DIODE	DCB010		
D331	8-719-990-39	DIODE	DCB010		
D333	8-719-210-39	DIODE	EC10QS-04		
D334	8-719-021-49	DIODE	UZM6.2X		
D501	8-719-422-46	DIODE	MA8056		
D502	8-719-990-39	DIODE	DCB010		
D503	8-719-990-39	DIODE	DCB010		
D504	8-719-301-39	LED	SEL2210S (PHONO)		
D505	8-719-301-39	LED	SEL2210S (CD)		
D506	8-719-301-39	LED	SEL2210S (TAPE)		
D507	8-719-301-39	LED	SEL2210S (VIDEO2)		
D508	8-719-301-39	LED	SEL2210S (VIDEO1)		
D509	8-719-301-39	LED	SEL2210S (WAKE UP VOL SET)		
D510	8-719-301-39	LED	SEL2210S (ON/STANDBY)		
D511	8-719-301-39	LED	SEL2210S (TUNER)		
D512	8-719-301-39	LED	SEL2210S (DAT)		

Ref. No.	Part No.	Description		Remark
D514	8-719-301-44	LED	SEL2410E-D (VIDEO2)	
D515	8-719-301-44	LED	SEL2410E-D (VIDEO1)	
D521	8-719-422-46	DIODE	MA8056	
D522	8-719-422-46	DIODE	MA8056	
D523	8-719-990-39	DIODE	DCB010	
D1201	8-719-800-76	DIODE	1SS226	
D1251	8-719-800-76	DIODE	1SS226	
D1270	8-719-990-39	DIODE	DCB010	
		< TRANSISTOR >		
FET1201	8-729-232-69	TRANSISTOR	2SK208GR3	
FET1251	8-729-232-69	TRANSISTOR	2SK208GR3	
		< FLUORESCENT INDICATOR >		
FL501	1-519-654-11	INDICATOR TUBE, FLUORESCENT		
		< IC >		
IC101	8-759-635-26	IC	M5283P	
IC102	8-759-045-15	IC	CS5339-KS	
IC103	8-759-805-14	IC	LC7822	
IC104	8-759-805-14	IC	LC7822	
IC106	8-759-511-68	IC	CXD8245M	
IC108	8-752-339-86	IC	CXD2557M	
IC109	8-759-059-84	IC	M37450M8-514FP	
IC110	8-759-973-04	IC	MSM41464-10RS	
IC111	8-752-341-99	IC	CXD2701Q	
IC112	8-752-332-80	IC	CXD1160AQ	
IC113	8-759-636-55	IC	M5218AFP	
IC114	8-759-636-55	IC	M5218AFP	
IC115	8-759-636-55	IC	M5218AFP	
IC116	8-759-636-55	IC	M5218AFP	
IC117	8-759-636-55	IC	M5218AFP	
IC118	8-759-636-55	IC	M5218AFP	
IC119	8-759-636-55	IC	M5218AFP	
IC120	8-759-636-55	IC	M5218AFP	
IC121	8-759-908-17	IC	TL082CPS	
IC122	8-759-982-44	IC	RC79L05A	
IC123	8-759-054-64	IC	CXD2905AQ	
IC124	8-759-517-14	IC	MB625473PF-G	
IC125	8-759-982-21	IC	RC78L05A	
IC331	8-752-349-01	IC	CXD2561AM	
IC332	8-752-342-65	IC	CXD2560M	
IC333	8-759-234-20	IC	TC7S08F	
IC501	8-759-512-46	IC	MSC7162	
IC502	8-759-512-45	IC	SN755731	
IC503	8-759-512-45	IC	SN755731	
IC504	8-759-512-46	IC	MSC7162	
IC505	8-759-512-47	IC	SN755721	

DSP PANEL

Ref. No.	Part No.	Description	Remark
IC506	8-759-059-82	IC TMP90CM40F-2611	
IC507	8-759-605-16	IC M51953BL	
IC508	8-759-059-83	IC MC68HC11L6SC400618FU	
IC509	8-759-512-48	IC XR-1092	
		< COIL >	
L100	1-410-397-21	FERRITE BEAD INDUCTOR	
L102	1-406-416-11	COIL (OSC)	
L260	1-412-390-21	INDUCTOR CHIP 0uH	
L262	1-412-390-21	INDUCTOR CHIP 0uH	
L333	1-412-390-21	INDUCTOR CHIP 0uH	
L399	1-410-369-11	INDUCTOR CHIP 1uH	
		< TRANSISTOR >	
Q100	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q101	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q102	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q103	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q104	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q105	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q106	8-729-805-65	TRANSISTOR 2SA1344	
Q107	8-729-805-65	TRANSISTOR 2SA1344	
Q108	8-729-805-65	TRANSISTOR 2SA1344	
Q109	8-729-602-21	TRANSISTOR 2SC4154	
Q110	8-729-805-65	TRANSISTOR 2SA1344	
Q111	8-729-805-65	TRANSISTOR 2SA1344	
Q112	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q113	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q114	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q115	8-729-805-41	TRANSISTOR 2SC3398	
Q116	8-729-602-21	TRANSISTOR 2SC4154	
Q117	8-729-602-21	TRANSISTOR 2SC4154	
Q118	8-729-805-41	TRANSISTOR 2SC3398	
Q123	8-729-805-65	TRANSISTOR 2SA1344	
Q124	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q125	8-729-602-36	TRANSISTOR 2SA1602	
Q126	8-729-805-65	TRANSISTOR 2SA1344	
Q127	8-729-805-41	TRANSISTOR 2SC3398	
Q128	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q129	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q130	8-729-805-65	TRANSISTOR 2SA1344	
Q132	8-729-805-65	TRANSISTOR 2SA1344	
Q331	8-729-805-41	TRANSISTOR 2SC3398	
Q332	8-729-805-65	TRANSISTOR 2SA1344	
Q333	8-729-205-97	TRANSISTOR 2SC3668-Y	
Q501	8-729-602-36	TRANSISTOR 2SA1602	
Q502	8-729-602-21	TRANSISTOR 2SC4154	
Q503	8-729-805-65	TRANSISTOR 2SA1344	
Q504	8-729-805-65	TRANSISTOR 2SA1344	
Q505	8-729-602-36	TRANSISTOR 2SA1602	
Q506	8-729-805-41	TRANSISTOR 2SC3398	
Q507	8-729-602-21	TRANSISTOR 2SC4154	
Q508	8-729-602-21	TRANSISTOR 2SC4154	
Q509	8-729-602-21	TRANSISTOR 2SC4154	
Q510	8-729-602-21	TRANSISTOR 2SC4154	
Q511	8-729-602-21	TRANSISTOR 2SC4154	
Q512	8-729-602-21	TRANSISTOR 2SC4154	
Q513	8-729-602-21	TRANSISTOR 2SC4154	
Q514	8-729-602-21	TRANSISTOR 2SC4154	
Q515	8-729-602-21	TRANSISTOR 2SC4154	
Q516	8-729-602-21	TRANSISTOR 2SC4154	
Q517	8-729-602-21	TRANSISTOR 2SC4154	
Q1201	8-729-602-21	TRANSISTOR 2SC4154	
Q1251	8-729-602-21	TRANSISTOR 2SC4154	
		< RESISTOR >	
R101	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R103	1-216-025-00	METAL CHIP 100 5% 1/10W	
R104	1-216-025-00	METAL CHIP 100 5% 1/10W	
R105	1-216-088-00	METAL CHIP 43K 5% 1/10W	
R108	1-216-025-00	METAL CHIP 100 5% 1/10W	
R109	1-216-025-00	METAL CHIP 100 5% 1/10W	
R110	1-216-041-00	METAL CHIP 470 5% 1/10W	
R111	1-216-041-00	METAL CHIP 470 5% 1/10W	
R112	1-216-041-00	METAL CHIP 470 5% 1/10W	
R113	1-216-041-00	METAL CHIP 470 5% 1/10W	
R115	1-216-041-00	METAL CHIP 470 5% 1/10W	
R116	1-216-041-00	METAL CHIP 470 5% 1/10W	
R117	1-216-041-00	METAL CHIP 470 5% 1/10W	
R118	1-216-041-00	METAL CHIP 470 5% 1/10W	
R126	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R127	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R128	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R129	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R130	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R131	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R132	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R133	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R134	1-216-043-00	METAL CHIP 560 5% 1/10W	
R135	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R136	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R137	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R138	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R139	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R140	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R141	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R142	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R143	1-216-097-00	METAL CHIP 100K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
R147	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R148	1-216-073-00	METAL CHIP	10K	5%	1/10W
R149	1-216-073-00	METAL CHIP	10K	5%	1/10W
R150	1-216-097-00	METAL CHIP	100K	5%	1/10W
R151	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R152	1-216-089-00	METAL CHIP	47K	5%	1/10W
R153	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R154	1-216-089-00	METAL CHIP	47K	5%	1/10W
R155	1-216-049-00	METAL CHIP	1K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-103-00	METAL CHIP	180K	5%	1/10W
R158	1-216-081-00	METAL CHIP	22K	5%	1/10W
R159	1-216-073-00	METAL CHIP	10K	5%	1/10W
R160	1-216-077-00	METAL CHIP	15K	5%	1/10W
R161	1-216-079-00	METAL CHIP	18K	5%	1/10W
R162	1-216-097-00	METAL CHIP	100K	5%	1/10W
R163	1-216-049-00	METAL CHIP	1K	5%	1/10W
R164	1-216-081-00	METAL CHIP	22K	5%	1/10W
R165	1-216-103-00	METAL CHIP	180K	5%	1/10W
R166	1-216-081-00	METAL CHIP	22K	5%	1/10W
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W
R168	1-216-077-00	METAL CHIP	15K	5%	1/10W
R169	1-216-079-00	METAL CHIP	18K	5%	1/10W
R170	1-216-097-00	METAL CHIP	100K	5%	1/10W
R171	1-216-089-00	METAL CHIP	47K	5%	1/10W
R172	1-216-089-00	METAL CHIP	47K	5%	1/10W
R173	1-216-089-00	METAL CHIP	47K	5%	1/10W
R174	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R175	1-216-089-00	METAL CHIP	47K	5%	1/10W
R176	1-216-041-00	METAL CHIP	470	5%	1/10W
R177	1-216-097-00	METAL CHIP	100K	5%	1/10W
R178	1-216-025-00	METAL CHIP	100	5%	1/10W
R179	1-216-073-00	METAL CHIP	10K	5%	1/10W
R180	1-216-033-00	METAL CHIP	220	5%	1/10W
R181	1-216-033-00	METAL CHIP	220	5%	1/10W
R182	1-216-113-00	METAL CHIP	470K	5%	1/10W
R183	1-216-079-00	METAL CHIP	18K	5%	1/10W
R184	1-216-047-00	METAL CHIP	820	5%	1/10W
R185	1-216-081-00	METAL CHIP	22K	5%	1/10W
R186	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R187	1-216-093-00	METAL CHIP	68K	5%	1/10W
R188	1-216-109-00	METAL CHIP	330K	5%	1/10W
R189	1-216-105-00	METAL CHIP	220K	5%	1/10W
R190	1-216-117-00	METAL CHIP	680K	5%	1/10W
R192	1-216-097-00	METAL CHIP	100K	5%	1/10W
R193	1-216-097-00	METAL CHIP	100K	5%	1/10W
R194	1-216-081-00	METAL CHIP	22K	5%	1/10W
R197	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R198	1-216-113-00	METAL CHIP	470K	5%	1/10W
R199	1-216-079-00	METAL CHIP	18K	5%	1/10W
R200	1-216-047-00	METAL CHIP	820	5%	1/10W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R203	1-216-093-00	METAL CHIP	68K	5%	1/10W
R204	1-216-109-00	METAL CHIP	330K	5%	1/10W
R205	1-216-105-00	METAL CHIP	220K	5%	1/10W
R206	1-216-117-00	METAL CHIP	680K	5%	1/10W
R208	1-216-097-00	METAL CHIP	100K	5%	1/10W
R209	1-216-097-00	METAL CHIP	100K	5%	1/10W
R210	1-216-081-00	METAL CHIP	22K	5%	1/10W
R213	1-216-049-00	METAL CHIP	1K	5%	1/10W
R214	1-216-049-00	METAL CHIP	1K	5%	1/10W
R215	1-216-049-00	METAL CHIP	1K	5%	1/10W
R216	1-216-033-00	METAL CHIP	220	5%	1/10W
R217	1-216-033-00	METAL CHIP	220	5%	1/10W
R226	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R227	1-216-049-00	METAL CHIP	1K	5%	1/10W
R228	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R229	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R230	1-216-113-00	METAL CHIP	470K	5%	1/10W
R231	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R232	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R233	1-216-113-00	METAL CHIP	470K	5%	1/10W
R234	1-216-043-00	METAL CHIP	560	5%	1/10W
R235	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R236	1-216-113-00	METAL CHIP	470K	5%	1/10W
R237	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R238	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R239	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R240	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R241	1-216-073-00	METAL CHIP	10K	5%	1/10W
R242	1-216-097-00	METAL CHIP	100K	5%	1/10W
R243	1-216-097-00	METAL CHIP	100K	5%	1/10W
R250	1-216-037-00	METAL CHIP	330	5%	1/10W
R251	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R252	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R253	1-216-077-00	METAL CHIP	15K	5%	1/10W
R254	1-216-073-00	METAL CHIP	10K	5%	1/10W
R255	1-216-097-00	METAL CHIP	100K	5%	1/10W
R256	1-216-025-00	METAL CHIP	100	5%	1/10W
R257	1-216-025-00	METAL CHIP	100	5%	1/10W
R258	1-216-041-00	METAL CHIP	470	5%	1/10W
R259	1-216-041-00	METAL CHIP	470	5%	1/10W
R261	1-216-017-00	METAL CHIP	47	5%	1/10W
R264	1-216-089-00	METAL CHIP	47K	5%	1/10W
R265	1-216-089-00	METAL CHIP	47K	5%	1/10W
R266	1-216-121-00	METAL CHIP	1M	5%	1/10W

DSP PANEL

Ref. No.	Part No.	Description			Remark
R267	1-216-121-00	METAL CHIP	1M	5%	1/10W
R268	1-216-025-00	METAL CHIP	100	5%	1/10W
R269	1-216-025-00	METAL CHIP	100	5%	1/10W
R272	1-216-113-00	METAL CHIP	470K	5%	1/10W
R274	1-216-041-00	METAL CHIP	470	5%	1/10W
R275	1-216-025-00	METAL CHIP	100	5%	1/10W
R276	1-216-025-00	METAL CHIP	100	5%	1/10W
R277	1-216-049-00	METAL CHIP	1K	5%	1/10W
R279	1-216-079-00	METAL CHIP	18K	5%	1/10W
R280	1-216-025-00	METAL CHIP	100	5%	1/10W
R281	1-216-025-00	METAL CHIP	100	5%	1/10W
R282	1-216-025-00	METAL CHIP	100	5%	1/10W
R283	1-216-025-00	METAL CHIP	100	5%	1/10W
R284	1-216-033-00	METAL CHIP	220	5%	1/10W
R285	1-216-025-00	METAL CHIP	100	5%	1/10W
R286	1-216-001-00	METAL CHIP	10	5%	1/10W
R287	1-216-089-00	METAL CHIP	47K	5%	1/10W
R288	1-216-089-00	METAL CHIP	47K	5%	1/10W
R289	1-216-033-00	METAL CHIP	220	5%	1/10W
R290	1-216-033-00	METAL CHIP	220	5%	1/10W
R291	1-216-073-00	METAL CHIP	10K	5%	1/10W
R292	1-216-079-00	METAL CHIP	18K	5%	1/10W
R293	1-216-073-00	METAL CHIP	10K	5%	1/10W
R294	1-216-025-00	METAL CHIP	100	5%	1/10W
R295	1-216-121-00	METAL CHIP	1M	5%	1/10W
R296	1-216-121-00	METAL CHIP	1M	5%	1/10W
R297	1-216-097-00	METAL CHIP	100K	5%	1/10W
R298	1-216-097-00	METAL CHIP	100K	5%	1/10W
R301	1-216-025-00	METAL CHIP	100	5%	1/10W
R302	1-216-025-00	METAL CHIP	100	5%	1/10W
R306	1-216-097-00	METAL CHIP	100K	5%	1/10W
R307	1-216-017-00	METAL CHIP	47	5%	1/10W
R308	1-216-041-00	METAL CHIP	470	5%	1/10W
R309	1-216-073-00	METAL CHIP	10K	5%	1/10W
R310	1-216-073-00	METAL CHIP	10K	5%	1/10W
R311	1-216-073-00	METAL CHIP	10K	5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-073-00	METAL CHIP	10K	5%	1/10W
R314	1-216-073-00	METAL CHIP	10K	5%	1/10W
R317	1-216-025-00	METAL CHIP	100	5%	1/10W
R318	1-216-295-00	METAL CHIP	0	5%	1/10W
R319	1-216-113-00	METAL CHIP	470K	5%	1/10W
R321	1-216-121-00	METAL CHIP	1M	5%	1/10W
R330	1-216-089-00	METAL CHIP	47K	5%	1/10W
R331	1-216-075-00	METAL CHIP	12K	5%	1/10W
R332	1-216-075-00	METAL CHIP	12K	5%	1/10W
R333	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R334	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R335	1-216-075-00	METAL CHIP	12K	5%	1/10W
R336	1-216-075-00	METAL CHIP	12K	5%	1/10W
R337	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R338	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R339	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R340	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R341	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R342	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R343	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R344	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R345	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R346	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R347	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R348	1-216-088-00	METAL CHIP	43K	5%	1/10W
R349	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R350	1-216-081-00	METAL CHIP	22K	5%	1/10W
R352	1-216-083-00	METAL CHIP	27K	5%	1/10W
R353	1-216-088-00	METAL CHIP	43K	5%	1/10W
R354	1-216-089-00	METAL CHIP	47K	5%	1/10W
R355	1-216-033-00	METAL CHIP	220	5%	1/10W
R358	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R359	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R360	1-216-001-00	METAL CHIP	10	5%	1/10W
R364	1-216-033-00	METAL CHIP	220	5%	1/10W
R398	1-216-076-00	METAL CHIP	13K	5%	1/10W
R399	1-216-076-00	METAL CHIP	13K	5%	1/10W
R501	1-216-121-00	METAL CHIP	1M	5%	1/10W
R502	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R503	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R505	1-216-081-00	METAL CHIP	22K	5%	1/10W
R506	1-216-081-00	METAL CHIP	22K	5%	1/10W
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W
R508	1-216-081-00	METAL CHIP	22K	5%	1/10W
R511	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-081-00	METAL CHIP	22K	5%	1/10W
R516	1-216-073-00	METAL CHIP	10K	5%	1/10W
R518	1-216-073-00	METAL CHIP	10K	5%	1/10W
R520	1-216-089-00	METAL CHIP	47K	5%	1/10W
R521	1-216-025-00	METAL CHIP	100	5%	1/10W
R522	1-216-025-00	METAL CHIP	100	5%	1/10W
R523	1-216-121-00	METAL CHIP	1M	5%	1/10W
R524	1-216-025-00	METAL CHIP	100	5%	1/10W
R525	1-216-025-00	METAL CHIP	100	5%	1/10W
R526	1-216-025-00	METAL CHIP	100	5%	1/10W
R527	1-216-025-00	METAL CHIP	100	5%	1/10W
R528	1-216-025-00	METAL CHIP	100	5%	1/10W
R529	1-216-025-00	METAL CHIP	100	5%	1/10W
R530	1-216-025-00	METAL CHIP	100	5%	1/10W
R531	1-216-025-00	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R532	1-216-025-00	METAL CHIP	100	5%	1/10W
R534	1-216-073-00	METAL CHIP	10K	5%	1/10W
R535	1-216-025-00	METAL CHIP	100	5%	1/10W
R536	1-216-025-00	METAL CHIP	100	5%	1/10W
R537	1-216-025-00	METAL CHIP	100	5%	1/10W
R538	1-216-025-00	METAL CHIP	100	5%	1/10W
R539	1-216-025-00	METAL CHIP	100	5%	1/10W
R540	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R541	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R542	1-216-025-00	METAL CHIP	100	5%	1/10W
R543	1-216-025-00	METAL CHIP	100	5%	1/10W
R544	1-216-027-00	METAL CHIP	120	5%	1/10W
R545	1-216-027-00	METAL CHIP	120	5%	1/10W
R546	1-216-027-00	METAL CHIP	120	5%	1/10W
R547	1-216-027-00	METAL CHIP	120	5%	1/10W
R548	1-216-029-00	METAL CHIP	150	5%	1/10W
R549	1-216-029-00	METAL CHIP	150	5%	1/10W
R550	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R551	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R552	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R553	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R554	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R555	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R556	1-216-075-00	METAL CHIP	12K	5%	1/10W
R557	1-216-075-00	METAL CHIP	12K	5%	1/10W
R558	1-216-025-00	METAL CHIP	100	5%	1/10W
R560	1-216-027-00	METAL CHIP	120	5%	1/10W
R561	1-216-027-00	METAL CHIP	120	5%	1/10W
R562	1-216-021-00	METAL CHIP	68	5%	1/10W
R563	1-216-021-00	METAL CHIP	68	5%	1/10W
R564	1-216-021-00	METAL CHIP	68	5%	1/10W
R565	1-216-027-00	METAL CHIP	120	5%	1/10W
R566	1-216-027-00	METAL CHIP	120	5%	1/10W
R567	1-216-049-00	METAL CHIP	1K	5%	1/10W
R568	1-216-073-00	METAL CHIP	10K	5%	1/10W
R569	1-216-049-00	METAL CHIP	1K	5%	1/10W
R570	1-216-025-00	METAL CHIP	100	5%	1/10W
R572	1-216-025-00	METAL CHIP	100	5%	1/10W
R573	1-216-025-00	METAL CHIP	100	5%	1/10W
R574	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R575	1-216-089-00	METAL CHIP	47K	5%	1/10W
R577	1-216-073-00	METAL CHIP	10K	5%	1/10W
R578	1-216-073-00	METAL CHIP	10K	5%	1/10W
R579	1-216-073-00	METAL CHIP	10K	5%	1/10W
R580	1-216-025-00	METAL CHIP	100	5%	1/10W
R581	1-216-025-00	METAL CHIP	100	5%	1/10W
R582	1-216-073-00	METAL CHIP	10K	5%	1/10W
R583	1-216-049-00	METAL CHIP	1K	5%	1/10W
		(E, EA, JE)			

Ref. No.	Part No.	Description			Remark
R584	1-216-049-00	METAL CHIP	1K	5%	1/10W
R585	1-216-049-00	METAL CHIP	1K	5%	1/10W
R586	1-216-049-00	METAL CHIP	1K	5%	1/10W
R587	1-216-049-00	METAL CHIP	1K	5%	1/10W
R588	1-216-049-00	METAL CHIP	1K	5%	1/10W
R589	1-216-049-00	METAL CHIP	1K	5%	1/10W
R590	1-216-049-00	METAL CHIP	1K	5%	1/10W
R591	1-216-019-00	METAL CHIP	56	5%	1/10W
R592	1-216-019-00	METAL CHIP	56	5%	1/10W
R593	1-216-019-00	METAL CHIP	56	5%	1/10W
R594	1-216-073-00	METAL CHIP	10K	5%	1/10W
R621	1-216-049-00	METAL CHIP	1K	5%	1/10W
R622	1-216-049-00	METAL CHIP	1K	5%	1/10W
R623	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1201	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R1203	1-216-093-00	METAL CHIP	68K	5%	1/10W
R1204	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1205	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1206	1-216-077-00	METAL CHIP	15K	5%	1/10W
R1207	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1208	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1209	1-216-121-00	METAL CHIP	1M	5%	1/10W
R1210	1-216-097-00	METAL CHIP	100K	5%	1/10W
R1211	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1212	1-216-097-00	METAL CHIP	100K	5%	1/10W
R1213	1-216-113-00	METAL CHIP	470K	5%	1/10W
R1251	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R1253	1-216-093-00	METAL CHIP	68K	5%	1/10W
R1254	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1256	1-216-077-00	METAL CHIP	15K	5%	1/10W
R1257	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1258	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1259	1-216-121-00	METAL CHIP	1M	5%	1/10W
R1260	1-216-097-00	METAL CHIP	100K	5%	1/10W
R1261	1-216-109-00	METAL CHIP	330K	5%	1/10W
R1262	1-216-109-00	METAL CHIP	330K	5%	1/10W
R1263	1-216-113-00	METAL CHIP	470K	5%	1/10W
R1270	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1301	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1302	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1303	1-216-049-00	METAL CHIP	1K	5%	1/10W
R3556	1-216-033-00	METAL CHIP	220	5%	1/10W

< SWITCH >

S501	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)
S502	1-554-303-21	SWITCH, TACTILE (DISPLAY)
S503	1-554-303-21	SWITCH, TACTILE (DSP)
S504	1-554-303-21	SWITCH, TACTILE (WAKE UP VOL SET)

DSP | **PANEL** | **ELECT CAPACITOR** | **FLD** | **POWER AMPLIFIER**

SPEAKER | **TRANSFORMER (A)** | **TRANSFORMER (B)** | **VOL**

Ref. No.	Part No.	Description	Remark
S505	1-554-303-21	SWITCH, TACTILE (BALANCE)	
S506	1-554-303-21	SWITCH, TACTILE (PRESET)	
S507	1-554-303-21	SWITCH, TACTILE (PARAMETRIC EQUALIZER)	
S508	1-554-303-21	SWITCH, TACTILE (DYNAMIC SOUND)	
S509	1-554-303-21	SWITCH, TACTILE (PRESENCE SURROUND)	
S510	1-554-303-21	SWITCH, TACTILE (ON/OFF)	
S511	1-554-303-21	SWITCH, TACTILE (AI BC)	
S512	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S513	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL ◀)	
S514	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL ▲)	
S515	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL ▼)	
S516	1-554-303-21	SWITCH, TACTILE (CURSOR CONTROL ▶)	
S517	1-554-303-21	SWITCH, TACTILE (VIDEO FUNCTION)	
S518	1-554-303-21	SWITCH, TACTILE (AUDIO FUNCTION)	
		< VIBRATOR >	
X100	1-578-667-11	VIBRATOR, CRYSTAL (49.152MHz)	
X101	1-577-253-11	VIBRATOR, CERAMIC (16.93MHz)	
X102	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	
X501	1-579-351-11	VIBRATOR, CERAMIC (15MHz)	
X502	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	
**********			
*	1-642-420-11	ELECT CAPACITOR BOARD	
		**********	
*	A-4345-999-A	FLD BOARD, COMPLETE	
		**********	
*	A-4347-010-A	POWER AMPLIFIER BOARD, COMPLETE (AEP)	
*	A-4347-013-A	POWER AMPLIFIER BOARD, COMPLETE (G, IT)	
*	A-4347-021-A	POWER AMPLIFIER BOARD, COMPLETE (E, EA, JE)	
		**********	
*	1-642-416-11	SPEAKER BOARD	
		**********	
*	1-642-418-11	TRANSFORMER (A) BOARD	
		**********	
*	1-642-419-11	TRANSFORMER (B) BOARD	
		**********	
*	1-642-415-11	VOL BOARD	
		**********	
		< CAPACITOR >	

Ref. No.	Part No.	Description			
C601	1-162-306-11	CERAMIC	0.01uF	20%	16V
C602	1-126-933-11	ELECT	100uF	20%	16V
C603	1-124-915-11	ELECT	10uF	20%	63V
C604	1-124-915-11	ELECT	10uF	20%	63V
C701	1-126-176-11	ELECT	220uF	20%	10V
C702	1-126-176-11	ELECT	220uF	20%	10V
C704	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-124-927-11	ELECT	4.7uF	20%	100V
C707	1-126-101-11	ELECT	100uF	20%	16V
C708	1-124-907-11	ELECT	10uF	20%	50V
C709	1-164-159-11	CERAMIC	0.1uF		50V
C710	1-124-910-11	ELECT	47uF	20%	50V
C711	1-164-159-11	CERAMIC	0.1uF		50V
C712	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-124-907-11	ELECT	10uF	20%	50V
C802	1-162-294-31	CERAMIC (AEP, E, EA, JE)	0.001uF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-124-927-11	ELECT	4.7uF	20%	100V
C806	1-136-165-00	FILM	0.1uF	5%	50V
C807	1-136-165-00	FILM	0.1uF	5%	50V
C808	1-136-165-00	FILM	0.1uF	5%	50V
C809	1-136-165-00	FILM	0.1uF	5%	50V
C811	1-162-306-11	CERAMIC	0.01uF	20%	16V
C821	1-124-907-11	ELECT	10uF	20%	50V
C822	1-162-294-31	CERAMIC (AEP, E, EA, JE)	0.001uF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-124-927-11	ELECT	4.7uF	20%	100V
C828	1-136-165-00	FILM	0.1uF	5%	50V
C829	1-136-165-00	FILM	0.1uF	5%	50V
C831	1-162-306-11	CERAMIC (AEP, E, EA, JE)	0.01uF	20%	16V
C851	1-124-907-11	ELECT	10uF	20%	50V
C852	1-162-294-31	CERAMIC (AEP, E, EA, JE)	0.001uF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-124-927-11	ELECT	4.7uF	20%	100V
C856	1-136-165-00	FILM	0.1uF	5%	50V
C857	1-136-165-00	FILM	0.1uF	5%	50V
C858	1-136-165-00	FILM	0.1uF	5%	50V
C859	1-136-165-00	FILM	0.1uF	5%	50V
C861	1-162-306-11	CERAMIC	0.01uF	20%	16V
C871	1-124-907-11	ELECT	10uF	20%	50V
C872	1-162-294-31	CERAMIC (AEP, E, EA, JE)	0.001uF	10%	50V
C873	1-162-282-31	CERAMIC	100PF	10%	50V
C874	1-124-927-11	ELECT	4.7uF	20%	100V
C878	1-136-165-00	FILM	0.1uF	5%	50V
C879	1-136-165-00	FILM	0.1uF	5%	50V
C881	1-162-306-11	CERAMIC	0.01uF	20%	16V
C891	1-136-153-00	FILM	0.01uF	5%	50V (G, IT)
C892	1-136-153-00	FILM	0.01uF	5%	50V (G, IT)
C893	1-136-153-00	FILM	0.01uF	5%	50V (G, IT)
C894	1-136-153-00	FILM	0.01uF	5%	50V (G, IT)
C901	1-126-224-11	ELECT	4700uF	20%	42V
C902	1-126-224-11	ELECT	4700uF	20%	42V
C905	1-136-171-00	FILM	0.33uF	5%	50V
C906	1-136-171-00	FILM	0.33uF	5%	50V
C923	1-124-911-11	ELECT	220uF	20%	50V
C924	1-124-911-11	ELECT	220uF	20%	50V

ELECT CAPACITOR | FLD | POWER AMPLIFIER | SPEAKER | TRANSFORMER (A) | TRANSFORMER (B) | VOL

Ref. No.	Part No.	Description			Remark
C925	1-124-122-11	ELECT	100uF	20%	50V
C926	1-164-159-11	CERAMIC	0.1uF		50V
C941	1-162-294-31	CERAMIC	0.001uF	10%	50V
C942	1-162-294-31	CERAMIC	0.001uF	10%	50V
C943	1-162-294-31	CERAMIC	0.001uF	10%	50V
C944	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1001	1-123-605-00	ELECT	100uF	20%	100V
C1002	1-124-667-11	ELECT	10uF	20%	100V
C1003	1-124-667-11	ELECT	10uF	20%	100V
C1004	1-124-667-11	ELECT	10uF	20%	100V
C1005	1-124-667-11	ELECT	10uF	20%	100V
		< CONNECTOR >			
CN601	1-560-942-00	PIN, CONNECTOR 6P			
CN891	1-563-311-11	CONNECTOR, BOARD TO BOARD 10P			
* CN892	1-564-518-11	PLUG, CONNECTOR 3P			
CNJ603	1-569-656-11	HOUSING, CONNECTOR 8P			
CNJ604	1-573-147-11	HOUSING, CONNECTOR 12P			
CNJ902	1-573-095-11	SOCKET, CONNECTOR 15P			
* CNJ911	1-573-094-11	SOCKET, CONNECTOR 13P			
* CNJ912	1-573-094-11	SOCKET, CONNECTOR 13P			
CNP602	1-568-319-11	SOCKET, CONNECTOR 8P			
CNP605	1-564-507-11	PLUG, CONNECTOR 4P			
* CNP606	1-564-505-11	PLUG, CONNECTOR 2P			
* CNP801	1-564-521-11	PLUG, CONNECTOR 6P			
* CNP802	1-573-087-11	PIN, CONNECTOR 13P			
* CNP903	1-564-321-00	PIN, CONNECTOR 2P (AEP, G, IT)			
CNP903	1-568-106-11	PIN, CONNECTOR 4P (EA, JE)			
		< DIODE >			
D601	8-719-987-63	DIODE	1N4148M		
D602	8-719-987-63	DIODE	1N4148M		
D701	8-719-987-63	DIODE	1N4148M		
D702	8-719-987-63	DIODE	1N4148M		
D703	8-719-987-63	DIODE	1N4148M		
D704	8-719-987-63	DIODE	1N4148M		
D705	8-719-987-63	DIODE	1N4148M		
D706	8-719-987-63	DIODE	1N4148M		
D801	8-719-987-63	DIODE	1N4148M		
D802	8-719-987-63	DIODE	1N4148M		
D821	8-719-987-63	DIODE	1N4148M		
D822	8-719-987-63	DIODE	1N4148M		
D851	8-719-987-63	DIODE	1N4148M		
D852	8-719-987-63	DIODE	1N4148M		
D871	8-719-987-63	DIODE	1N4148M		
D872	8-719-987-63	DIODE	1N4148M		
D915	8-719-200-82	DIODE	11ES2		
D916	8-719-200-82	DIODE	11ES2		
D917	8-719-934-22	DIODE	HZS30-2L		
D918	8-719-014-88	DIODE	UZP-6.8BC		
D1001	8-719-200-82	DIODE	11ES2		
D1002	8-719-200-82	DIODE	11ES2		
D1003	8-719-200-82	DIODE	11ES2		
D1004	8-719-200-82	DIODE	11ES2		
D1005	8-719-987-63	DIODE	1N4148M		
D1006	8-719-002-73	DIODE	UZL-36M		
D1007	8-719-002-73	DIODE	UZL-36M		
D1008	8-719-934-26	DIODE	HZS33-2L		
D1009	8-719-934-26	DIODE	HZS33-2L		
D1010	8-719-934-22	DIODE	HZS30-2L		
		< IC >			
IC601	8-759-820-62	IC	LB1639		
IC701	8-759-111-68	IC	uPC1237HA		
IC702	8-759-987-16	IC	LM393P		
IC703	8-759-947-34	IC	LM35DZ		
IC801	8-759-069-56	IC	LM3875-Q		
IC821	8-759-069-56	IC	LM3875-Q		
IC851	8-759-069-56	IC	LM3875-Q		
IC871	8-759-069-56	IC	LM3875-Q		
		< JACK >			
J891	1-537-336-11	TERMINAL BOARD (SPEAKER)			
J892	1-573-110-11	JACK, PIN 2P (SURROUND SPEAKER)			
		< COIL >			
* L801	1-420-872-00	COIL, AIR CORE			
* L821	1-420-872-00	COIL, AIR CORE			
* L851	1-420-872-00	COIL, AIR CORE			
* L871	1-420-872-00	COIL, AIR CORE			
		< TRANSISTOR >			
Q601	8-729-801-93	TRANSISTOR	2SD1387		
Q602	8-729-900-80	TRANSISTOR	DTC114ES		
Q701	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q801	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q821	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q851	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q871	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q1001	8-729-111-29	TRANSISTOR	2SD1616A-K		
Q1002	8-729-111-29	TRANSISTOR	2SD1616A-K		
		< RESISTOR >			
⚠R601	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R602	1-249-422-11	CARBON	2.7K	5%	1/4W
R603	1-249-422-11	CARBON	2.7K	5%	1/4W
R604	1-249-425-11	CARBON	4.7K	5%	1/4W
R605	1-249-425-11	CARBON	4.7K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

ELECT CAPACITOR | **FLD** | **POWER AMPLIFIER** | **SPEAKER** | **TRANSFORMER (A)** | **TRANSFORMER (B)** | **VOL** | **JACK** | **POWER**

Ref. No.	Part No.	Description				Remark
R606	1-249-416-11	CARBON	820	5%	1/4W	
R607	1-249-425-11	CARBON	4.7K	5%	1/4W	
R701	1-249-433-11	CARBON	22K	5%	1/4W	
R702	1-249-441-11	CARBON	100K	5%	1/4W	
R703	1-249-433-11	CARBON	22K	5%	1/4W	
R704	1-249-433-11	CARBON	22K	5%	1/4W	
R705	1-249-429-11	CARBON	10K	5%	1/4W	
R706	1-249-429-11	CARBON	10K	5%	1/4W	
R707	1-249-429-11	CARBON	10K	5%	1/4W	
R708	1-249-424-11	CARBON	3.9K	5%	1/4W	
R709	1-249-427-11	CARBON	6.8K	5%	1/4W	
R710	1-249-429-11	CARBON	10K	5%	1/4W	
R711	1-249-417-11	CARBON	1K	5%	1/4W	
R712	1-249-437-11	CARBON	47K	5%	1/4W	
R713	1-249-441-11	CARBON	100K	5%	1/4W	
R714	1-249-417-11	CARBON	1K	5%	1/4W	
R715	1-249-393-11	CARBON	10	5%	1/4W	
R801	1-249-417-11	CARBON	1K	5%	1/4W	
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-420-11	CARBON	1.8K	5%	1/4W	
R804	1-247-870-11	CARBON	43K	5%	1/4W	
⚠R805	1-217-151-00	RES, METAL PLATE	0.22		2W	
R806	1-249-417-11	CARBON	1K	5%	1/4W	
R807	1-249-431-11	CARBON	15K	5%	1/4W	
R808	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R809	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R810	1-249-439-11	CARBON	68K	5%	1/4W	
R811	1-249-429-11	CARBON	10K	5%	1/4W	
R821	1-249-417-11	CARBON	1K	5%	1/4W	
R822	1-249-437-11	CARBON	47K	5%	1/4W	
R823	1-249-420-11	CARBON	1.8K	5%	1/4W	
R824	1-247-874-11	CARBON	62K	5%	1/4W	
⚠R825	1-217-151-00	RES, METAL PLATE	0.22		2W	
R826	1-249-417-11	CARBON	1K	5%	1/4W	
R827	1-249-431-11	CARBON	15K	5%	1/4W	
R828	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R829	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R830	1-249-437-11	CARBON	47K	5%	1/4W	
R831	1-249-429-11	CARBON	10K	5%	1/4W	
R851	1-249-417-11	CARBON	1K	5%	1/4W	
R852	1-249-437-11	CARBON	47K	5%	1/4W	
R853	1-249-420-11	CARBON	1.8K	5%	1/4W	
R854	1-247-870-11	CARBON	43K	5%	1/4W	
⚠R855	1-217-151-00	RES, METAL PLATE	0.22		2W	
R856	1-249-417-11	CARBON	1K	5%	1/4W	
R857	1-249-431-11	CARBON	15K	5%	1/4W	
R858	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R859	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R860	1-249-438-11	CARBON	56K	5%	1/4W	
R861	1-249-429-11	CARBON	10K	5%	1/4W	
R871	1-249-417-11	CARBON	1K	5%	1/4W	
R872	1-249-437-11	CARBON	47K	5%	1/4W	
R873	1-249-420-11	CARBON	1.8K	5%	1/4W	
R874	1-247-874-11	CARBON	62K	5%	1/4W	
⚠R875	1-217-151-00	RES, METAL PLATE	0.22		2W	
R876	1-249-417-11	CARBON	1K	5%	1/4W	
R877	1-249-431-11	CARBON	15K	5%	1/4W	
R878	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R879	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R880	1-249-436-11	CARBON	39K	5%	1/4W	
R881	1-249-429-11	CARBON	10K	5%	1/4W	
R891	1-247-727-11	CARBON	10	5%	1/2W	(G, IT)
R892	1-247-727-11	CARBON	10	5%	1/2W	(G, IT)
R893	1-247-727-11	CARBON	10	5%	1/2W	(G, IT)
R894	1-247-727-11	CARBON	10	5%	1/2W	(G, IT)
R917	1-247-713-11	CARBON	1K	5%	1/4W	
R918	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R1001	1-212-966-00	FUSIBLE	22	5%	1/2W	F
R1002	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1003	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1004	1-247-903-00	CARBON	1M	5%	1/4W	
R1005	1-247-902-11	CARBON	910K	5%	1/4W	
R1006	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R1901	1-219-134-11	FUSIBLE	0.1	5%	1/4W	F
⚠R1902	1-219-134-11	FUSIBLE	0.1	5%	1/4W	F
⚠R1905	9-910-999-33	FUSIBLE	0.22	5%	1/4W	F
⚠R1906	9-910-999-33	FUSIBLE	0.22	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV601	1-241-803-11	RES, VAR, CARBON (WITH MOTOR)	10K			(VOLUME)
		< RELAY >				
RY1001	1-515-886-11	RELAY				

****

*	1-642-413-11	JACK BOARD	
		**********	
*	A-4347-007-A	POWER BOARD, COMPLETE	(AEP)
*	A-4347-012-A	POWER BOARD, COMPLETE	(G, IT)
*	A-4347-019-A	POWER BOARD, COMPLETE	(E, EA, JE)
		**********	
*	1-533-213-31	HOLDER, FUSE	
*	3-309-144-21	HEAT SINK	
	7-682-547-04	SCREW +BVTT 3X6 (S)	

< CAPACITOR >

C1	1-124-915-11	ELECT	10uF	20%	63V
C2	1-162-306-11	CERAMIC	0.01uF	20%	16V

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

JACK **POWER**

Ref. No.	Part No.	Description			Remark
C3	1-162-306-11	CERAMIC	0.01uF	20%	16V
C5	1-136-153-00	FILM	0.01uF	5%	50V
C7	1-162-306-11	CERAMIC	0.01uF	20%	16V
C8	1-162-294-31	CERAMIC	0.001uF	10%	50V
C651	1-162-282-31	CERAMIC	100PF	10%	50V
		(AEP, E, EA, JE)			
C651	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C652	1-162-207-31	CERAMIC	22PF	5%	50V (G, IT)
C652	1-162-215-31	CERAMIC	47PF	5%	50V
		(AEP, E, EA, JE)			
C653	1-161-379-00	CERAMIC	0.01uF	20%	25V
C654	1-161-379-00	CERAMIC	0.01uF	20%	25V (G, IT)
C654	1-162-294-31	CERAMIC	0.001uF	10%	50V
		(AEP, E, EA, JE)			
C655	1-124-282-00	ELECT	22uF	20%	25V
C656	1-124-119-00	ELECT	330uF	20%	16V
C661	1-162-282-31	CERAMIC	100PF	10%	50V
		(AEP, E, EA, JE)			
C661	1-162-286-31	CERAMIC	220PF	10%	50V (G, IT)
C662	1-162-207-31	CERAMIC	22PF	5%	50V (G, IT)
C662	1-162-215-31	CERAMIC	47PF	5%	50V
		(AEP, E, EA, JE)			
C663	1-161-379-00	CERAMIC	0.01uF	20%	25V
C664	1-161-379-00	CERAMIC	0.01uF	20%	25V (G, IT)
C664	1-162-294-31	CERAMIC	0.001uF	10%	50V
		(AEP, E, EA, JE)			
C665	1-124-282-00	ELECT	22uF	20%	25V
C666	1-124-119-00	ELECT	330uF	20%	16V
C903	1-126-943-11	ELECT	2200uF	20%	25V
C904	1-126-943-11	ELECT	2200uF	20%	25V
C907	1-136-165-00	FILM	0.1uF	5%	50V
C908	1-136-165-00	FILM	0.1uF	5%	50V
C909	1-124-477-11	ELECT	47uF	20%	25V
C910	1-124-477-11	ELECT	47uF	20%	25V
C911	1-124-915-11	ELECT	10uF	20%	63V
C912	1-124-915-11	ELECT	10uF	20%	63V
C913	1-124-915-11	ELECT	10uF	20%	63V
C914	1-126-937-11	ELECT	4700uF	20%	16V
		(AEP, E, EA, JE)			
C915	1-124-915-11	ELECT	10uF	20%	63V
C916	1-124-915-11	ELECT	10uF	20%	63V
C917	1-126-947-11	ELECT	47uF	20%	35V
C918	1-124-915-11	ELECT	10uF	20%	63V
C1101	1-126-948-11	ELECT	100uF	20%	35V
C1102	1-124-915-11	ELECT	10uF	20%	63V
C1103	1-161-379-00	CERAMIC	0.01uF	20%	25V
C2000	1-101-006-00	CERAMIC	0.047uF		50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN902	1-564-506-11	PLUG, CONNECTOR 3P	
* CN904	1-564-506-11	PLUG, CONNECTOR 3P	
* CNJ1	1-580-739-11	SOCKET, CONNECTOR 15P (SYSTEM CONTROL 1)	
* CNJ2	1-580-740-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 2)	
* CNJ3	1-563-534-11	CONNECTOR, BOARD TO BOARD 16P	
* CNP7	1-564-499-11	PIN, CONNECTOR 6P	
* CNP8	1-564-498-11	PIN, CONNECTOR 5P	
* CNP903	1-564-321-00	PIN, CONNECTOR 2P (AEP, G, IT)	
CNP903	1-568-106-11	PIN, CONNECTOR 4P (E, EA, JE)	
* CNP905	1-573-087-11	PIN, CONNECTOR 13P	
CNP906	1-573-109-11	PIN, CONNECTOR 15P	
* CNP907	1-506-981-11	PIN, CONNECTOR 10P	
CNP908	1-568-317-11	SOCKET, CONNECTOR 6P	
* CNP909	1-573-148-11	PLUG, CONNECTOR 12P	
* CNP910	1-564-338-00	PIN, CONNECTOR 4P	
* CNP911	1-564-505-11	PLUG, CONNECTOR 2P	
		< DIODE >	
D891	8-719-987-63	DIODE 1N4148M	
D892	8-719-987-63	DIODE 1N4148M	
D901	8-719-510-68	DIODE D5SBA20F01	
D902	8-719-987-63	DIODE 1N4148M	
D903	8-719-987-63	DIODE 1N4148M	
D904	8-719-200-82	DIODE 11ES2	
D905	8-719-200-82	DIODE 11ES2	
D906	8-719-200-82	DIODE 11ES2	
D907	8-719-200-82	DIODE 11ES2	
D908	8-719-200-82	DIODE 11ES2	
D909	8-719-200-82	DIODE 11ES2	
D910	8-719-987-63	DIODE 1N4148M	
D911	8-719-933-36	DIODE HZS6B1L	
D919	8-719-987-63	DIODE 1N4148M	
D920	8-719-987-63	DIODE 1N4148M	
D1101	8-719-200-82	DIODE 11ES2	
D1102	8-719-200-82	DIODE 11ES2	
		< IC >	
IC1	8-749-921-11	IC GP1F32R (DIGITAL OPTICAL CD IN)	
IC2	8-749-921-11	IC GP1F32R (DIGITAL OPTICAL DAT IN)	
IC3	8-749-921-12	IC GP1F32T (DIGITAL OPTICAL DAT OUT)	
IC651	8-759-634-50	IC M5218AL	
IC901	8-759-602-66	IC M5230L-A	
		< JACK >	
J1	1-565-304-11	JACK, PIN 4P (ADAPTOR) (E, EA, JE)	
J2	1-569-662-11	JACK, PIN 1P (SUPER WOOFER)	
J651	1-562-837-21	JACK (HEADPHONES)	

JACK POWER

Ref. No.	Part No.	Description				Remark
⚠J901	1-526-930-11	INLET, AC (~ AC IN) (E, EA, JE)				
⚠J901	1-526-931-11	INLET, AC (~ AC IN) (AEP, G, IT)				
		< COIL >				
L1	1-410-397-21	FERRITE BEAD INDUCTOR				
		< LINE FILTER >				
⚠L901	1-424-485-11	FILTER, LINE (AEP, G, IT)				
		< TRANSISTOR >				
Q651	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q652	8-729-900-61	TRANSISTOR	DTA114ES			
Q661	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q901	8-729-209-15	TRANSISTOR	2SD2012			
Q902	8-729-141-83	TRANSISTOR	2SB1094-LK			
Q903	8-729-900-80	TRANSISTOR	DTC114ES			
Q905	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q906	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q908	8-729-801-84	TRANSISTOR	2SB1013-4			
Q909	8-729-111-29	TRANSISTOR	2SD1616A-K			
Q910	8-729-111-29	TRANSISTOR	2SD1616A-K			
Q911	8-729-620-05	TRANSISTOR	2SC2603-EF			
Q1101	8-729-111-29	TRANSISTOR	2SD1616A-K			
Q1601	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q1602	8-729-141-30	TRANSISTOR	2SC3623A-LK			
		< RESISTOR >				
⚠R2	9-910-999-33	FUSIBLE	0.22	5%	1/4W	F
⚠R3	9-910-999-33	FUSIBLE	0.22	5%	1/4W	F
R5	1-249-409-11	CARBON	220	5%	1/4W	
R651	1-249-433-11	CARBON	22K	5%	1/4W	
R652	1-247-881-00	CARBON	120K	5%	1/4W	
R653	1-249-405-11	CARBON	100	5%	1/4W	
R654	1-249-419-11	CARBON	1.5K	5%	1/4W	
R655	1-249-422-11	CARBON	2.7K	5%	1/4W	
R656	1-249-405-11	CARBON	100	5%	1/4W	
R657	1-249-441-11	CARBON	100K	5%	1/4W	
R658	1-249-429-11	CARBON	10K	5%	1/4W	
R661	1-249-433-11	CARBON	22K	5%	1/4W	
R662	1-247-881-00	CARBON	120K	5%	1/4W	
R663	1-249-405-11	CARBON	100	5%	1/4W	
R666	1-249-405-11	CARBON	100	5%	1/4W	
R668	1-249-429-11	CARBON	10K	5%	1/4W	
R902	1-247-903-00	CARBON	1M	5%	1/4W	
R905	1-249-413-11	CARBON	470	5%	1/4W	
R906	1-249-434-11	CARBON	27K	5%	1/4W	
R907	1-249-425-11	CARBON	4.7K	5%	1/4W	
R908	1-249-431-11	CARBON	15K	5%	1/4W	
R909	1-249-431-11	CARBON	15K	5%	1/4W	
R910	1-249-419-11	CARBON	1.5K	5%	1/4W	
R911	1-249-429-11	CARBON	10K	5%	1/4W	
R912	1-249-429-11	CARBON	10K	5%	1/4W	
R913	1-249-429-11	CARBON	10K	5%	1/4W	
R914	1-249-429-11	CARBON	10K	5%	1/4W	
R919	1-249-429-11	CARBON	10K	5%	1/4W	
R920	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R921	1-215-863-11	METAL OXIDE	100	5%	1W	F
R922	1-249-429-11	CARBON	10K	5%	1/4W	
R923	1-249-425-11	CARBON	4.7K	5%	1/4W	
R924	1-249-429-11	CARBON	10K	5%	1/4W	
R925	1-249-429-11	CARBON	10K	5%	1/4W	
R926	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R928	1-216-425-11	METAL OXIDE	56	5%	1W	F
R930	1-249-417-11	CARBON	1K	5%	1/4W	
R931	1-249-441-11	CARBON	100K	5%	1/4W	
R932	1-249-429-11	CARBON	10K	5%	1/4W	
R1101	1-249-429-11	CARBON	10K	5%	1/4W	
		< RELAY >				
RY801	1-515-790-11	RELAY				
RY802	1-515-790-11	RELAY				
RY901	1-515-626-11	RELAY				
RY902	1-515-626-11	RELAY				
		< SWITCH >				
⚠S901	1-572-009-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (E, EA, JE)				

****

MISCELLANEOUS

****

67	1-535-706-11	PLUG, JUMPER (E, EA, JE)
⚠F901	1-532-286-00	FUSE, TIME-LAG (T2.5A) (AEP, G, IT)
⚠F901	1-532-299-00	FUSE, TIME-LAG (T5A) (E, EA, JE)
⚠F902	1-532-286-00	FUSE, TIME-LAG (T2.5A) (E, EA, JE)
IC902	8-759-231-53	IC M5F7805L
M801	1-541-860-11	MOTOR, DC FAN
⚠PT901	1-450-882-11	TRANSFORMER, POWER (E, EA, JE)
⚠PT901	1-450-883-11	TRANSFORMER, POWER (AEP, G, IT)
Q904	8-729-209-15	TRANSISTOR 2SD2012

****

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark

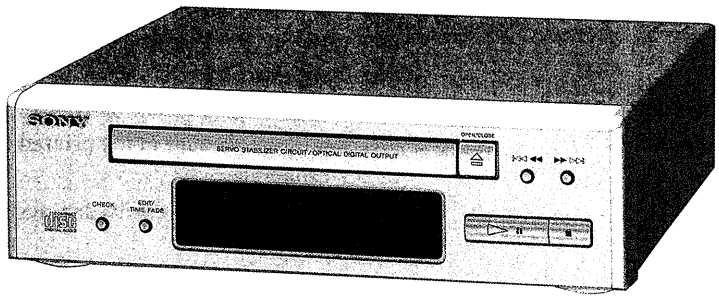
****
HARDWARE LIST
****

#1	7-685-203-14	SCREW +KTP 2X5 TYPE2 NON-SLIT	
#2	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#3	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#4	7-685-132-19	SCREW +PTPWH 2.6X5 (TYPE2)	
#5	7-682-547-04	SCREW +BVTT 3X6 (S)	
#6	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#7	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#8	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	

CDP-H7700D

SERVICE MANUAL

E Model
Tourist Model



This set is the CD player section in FH-E959.

Model Name Using Similar Mechanism	CDP-H3700
CD Mechanism Type	CDM13BA-5BD3
Optical Pick-Up Block Type	BU-5BD3

SPECIFICATIONS

System	Compact disc digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

使用時は添付資料も参照のこと
Refer to the additional documents.

COMPACT DISC PLAYER

SONY

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NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

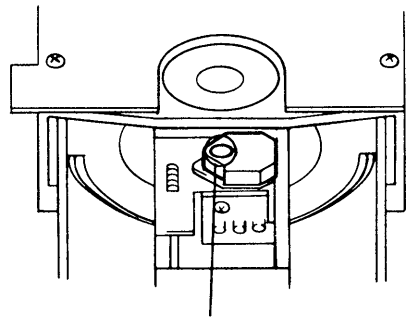
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential diference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objective lens.

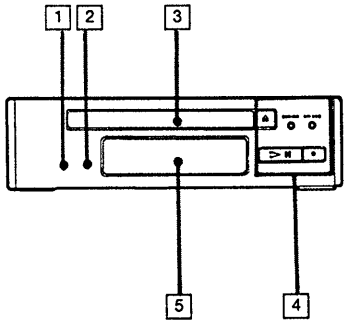


- Confirm that laser beam is spread.
- Up and down motion of the objective lens. (3 times)

SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION



1 CHECK button ㊻
2 EDIT/TIME FADE button ㊺ ㊽
3 Disc tray
4 CD operation buttons
⏏ : OPEN/CLOSE
▷II : Play/pause
⏮◀◀ ▶▶⏭ : Manual search (when kept depressed) /Automatic Music Sensor (when pressed)
5 Display window

SECTION 2
TEST MODES

2-1. Test Mode of Display Microcomputer (IC401)

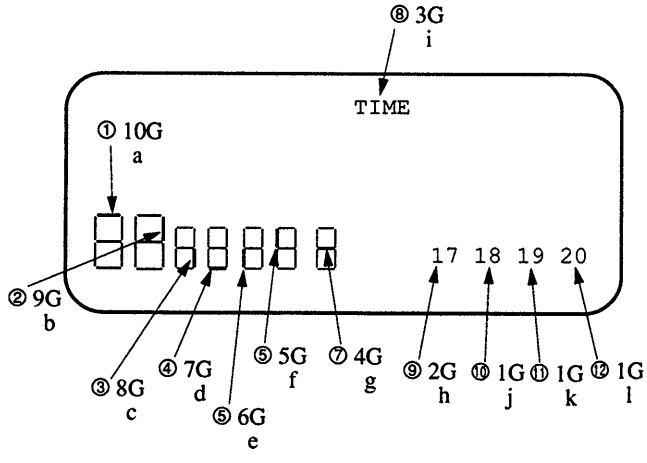
Connect Pin ㉝ of IC401 to ground and turn ON the POWER switch, thus you can test the following 3 tests.

(1) All FL tube ON

This mode is actuated immediately after turning ON the POWER switch.

(2) FL tube segment check

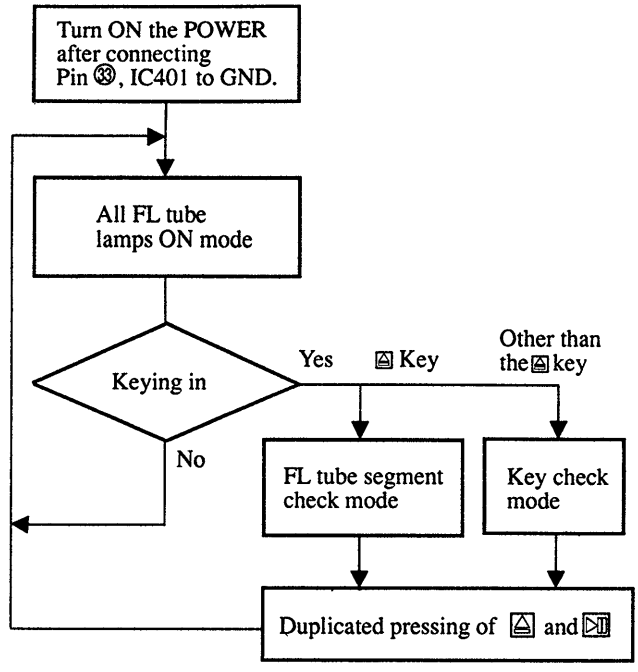
This mode is actuated by pressing the ⏏ key in the state of (1). Every time the ⏏ key is pressed, the segments are indicated sequentially from the segment a. When the last 1 segment is displayed, keying in is no longer accepted while continuing the lighting-up state of the last segment. Conditions are normal provided all lamps light up in the following order.



(3) KEY check

This mode is effected by pressing the ⏏ key in the state of (1), while indicating "1." Every time a new key is pressed subsequently, the indicated number is incremented. Conditions are normal provided "7" is indicated when all types of keys are pressed. Even if a key is pressed again, it is not counted.

* To leave the mode (2) or (3), press the ⏏ and ⏯ keys in duplication, thereby the mode returning to all ON mode.


Turn ON the POWER after connecting Pin ㉝, IC401 to GND.
All FL tube lamps ON mode
Keying in
Yes
⏏ Key
Other than the ⏏ key
No
FL tube segment check mode
Key check mode
Duplicated pressing of ⏏ and ⏯

2-2. Test Modes of CD System Controller (IC202)

(1) ADJUST mode

When this mode is effected, the machine is operated normally except for the following.

- When pin ⑲, IC201 (ADJ) is set to "L" after turning ON the POWER switch:

1. GFS is no longer monitored during PLAY, PAUSE or SEARCH, while not stopping even with GFS remaining still at "L" (NG).
2. No high-speed feeding is activated during SEARCH.
3. Focus gain is reset to normal gain during PLAY (normally, the gain is lowered to reduce noise when FOCUS is locked).

- When Pin ⑬, IC201 (AFADJ) is set to "L" after turning ON the POWER switch:

1. Regardless of Pin ⑲ (ADJ) of the CLV-S fixed function, the CLV mode during PLAY becomes CLV-S (rough servo) only while Pin e remains "L".

(2) AFADJUST mode

In this mode, it is possible to check the interface between the display micon (IC401) and CD syscon (IC201).

- Set Pin ⑬, IC201 (AFADJ) to "L" before turning ON the POWER switch.

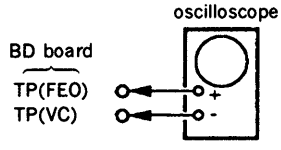
1. Every time the ⏏ key is pressed after turning On the POWER switch, indication on the FL tube is switched correspondingly. Conditions are normal provided the indication repeats the 4 patterns including all lamp ON.

SECTION 3
ELECTRICAL BLOCK CHECKING

Note :

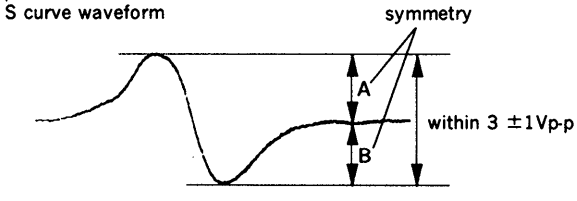
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

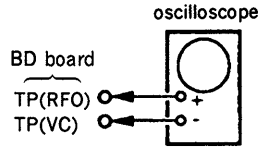


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

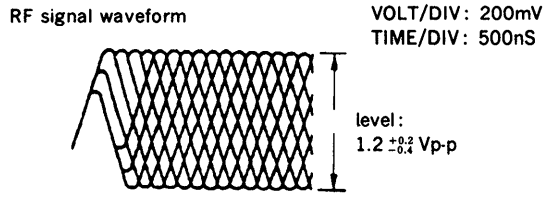


Procedure :

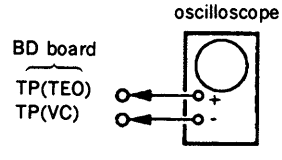
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

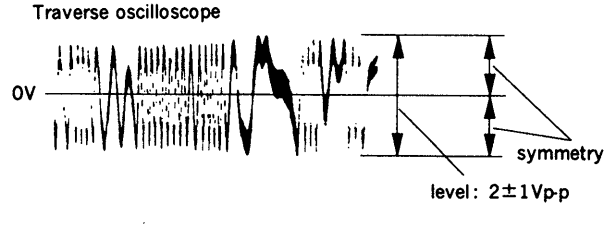


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

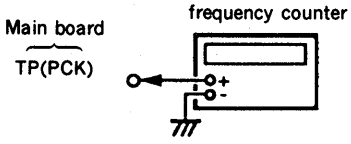


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

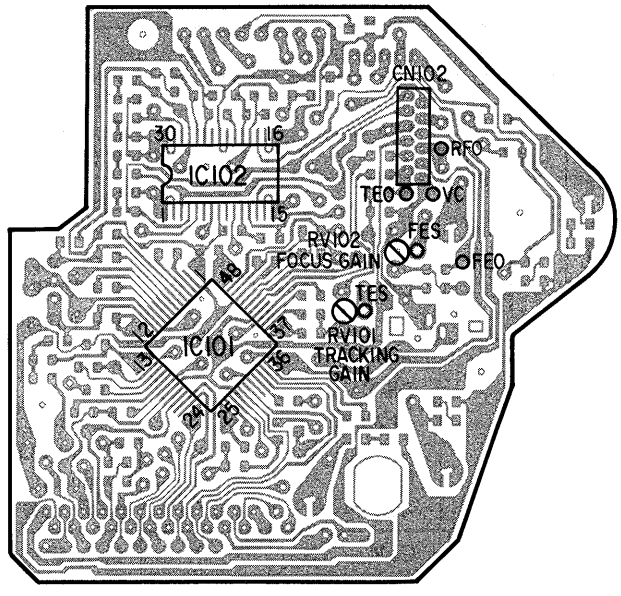
Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

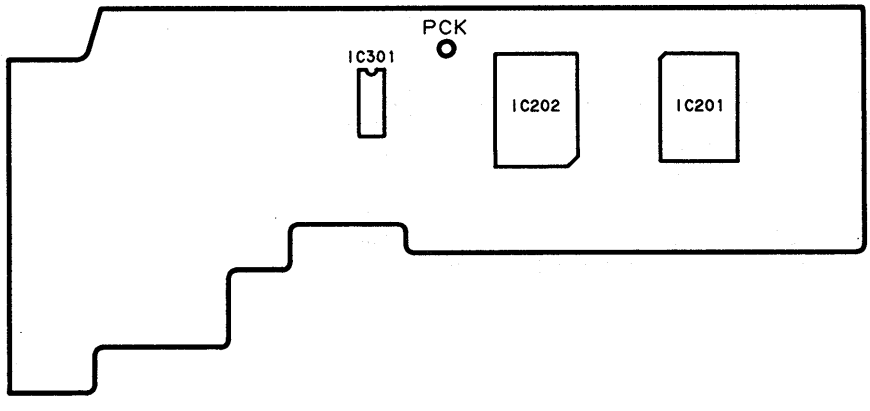
Checking Location :

【BD Board】

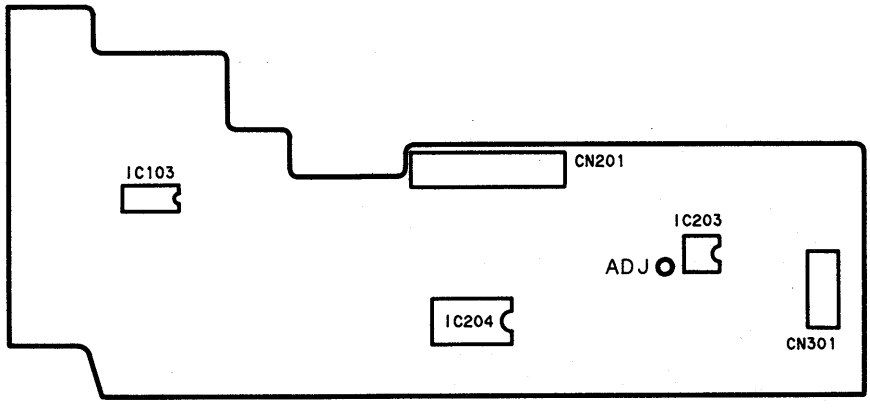
—Conductor Side—



【MAIN Board】 —Component Side—



【MAIN Board】 —Conductor Side—



SECTION 4
DIAGRAMS

4-1. PIN DESCRIPTION

• IC201 CD System Controller (μPD75116GF-F21-3BE)

Functions effected by the captioned controller include IC101 (RF signal processing, servo), IC202 (DSP, digital filter) and loading control in the CD unit, data exchange with IC401 (display controller), audio bus entry, etc.

Pin No.	Pin Name	I/O	Description
1-2	G MUTE, GCLR	O	Not in use with the model (open).
3	DPCLK	O	Display data transfer clock output to IC401 (display micon)
4-6		O	IC204 (CXD2554M) control output.
7	$\overline{\text{RESET}}$	I	System reset input. "L": Reset
8	X2	I	Clock input
9	X1	I	Clock input (4 MHz)
10	DFCT SW	O	DEFECT circuit ON/OFF switching output of IC101 (CXA1372Q). It is turned OFF ("H") to focus-search the DISC flaw detection circuit.
11	AMUTE	O	Muting control output. "H": Mute
12	BSOUT	O	Audio bus output
13	AFADJ	I	Test mode input. Various test operations are effected upon "L" after turning ON the POWER.
14	LDON	O	Optical pickup laser diode ON/OFF switching output. "H": ON
15	XLT	O	Serial data latch output to IC202 (CXD2500AQ)
16	CLK	O	Serial data transfer clock output to IC202 (CXD2500AQ)
17	DATA	O	Serial data output to IC202 (CXD2500AQ)
18	MODE	I	Not in use with the model (GND)
19	ADJ	I	Test mode input. Upon "L," GFS checking is disabled while continuously rotating the spindle no matter whether frame synch is issued during PLAY, PAUSE or SEARCH.
20	GFS	I	GFS signal input from IC202 (CXD2500AQ). "L": NG "H": OK
21	FOK	I	Focus OK signal input from IC101 (CXA1372Q). "H": OK
22 - 23		O	Not in use with the model (open)
24	LODOUT	O	Output to rotate M291 (loading motor) in the loading out direction. *1
25	LODIN	O	Output to rotate M291 (loading motor) in the loading in direction. *1
26	Vss	–	Power terminal (GND)
27	$\overline{\text{IN SW}}$	I	S292 (Loading in switch) input
28	$\overline{\text{OUT SW}}$	I	S291 (Loading out switch) input
29	KEY REQ	I	Key data request input from IC401 (display controller)
30	BS IN	I	Audio bus input
31 - 36			Not in use with the model (GND)
37	$\overline{\text{SENS}}$	I	SENS input from IC101 (CXA1372Q) and IC202 (CXD2500AQ)
38	$\overline{\text{TIMER}}$	I	Not in use with the model (pull up)
39	D/F 16BIT	I	IC202 (CXD2500AQ) digital filter mode setting input. It is fixed at 16 bit, 4fs with the model (pull up).
40		I	Not in use with the model (GND)
41	SUBQ	I	Subcode Q data input from IC202 (CXD2500AQ)
42		O	Not in use with the model (open)
43	SQCLK	O	Subcode Q data readout clock output to IC202 (CXD2500AQ)
44	SCOR	I	Subcode sync S0 + S1 detection input from IC202 (CXD2500AQ)
45 - 56		O	Not in use with the model (open)
57	N.C.	I	Not in use with the model (+5V)
58	V_{DD}	–	Power terminal (+5V)
59 - 62	DPDATA3-0	I/O	Key data input and display data output with IC401 (display controller)
63 - 64		O	Not in use with the model (open)

*1 Loading motor control

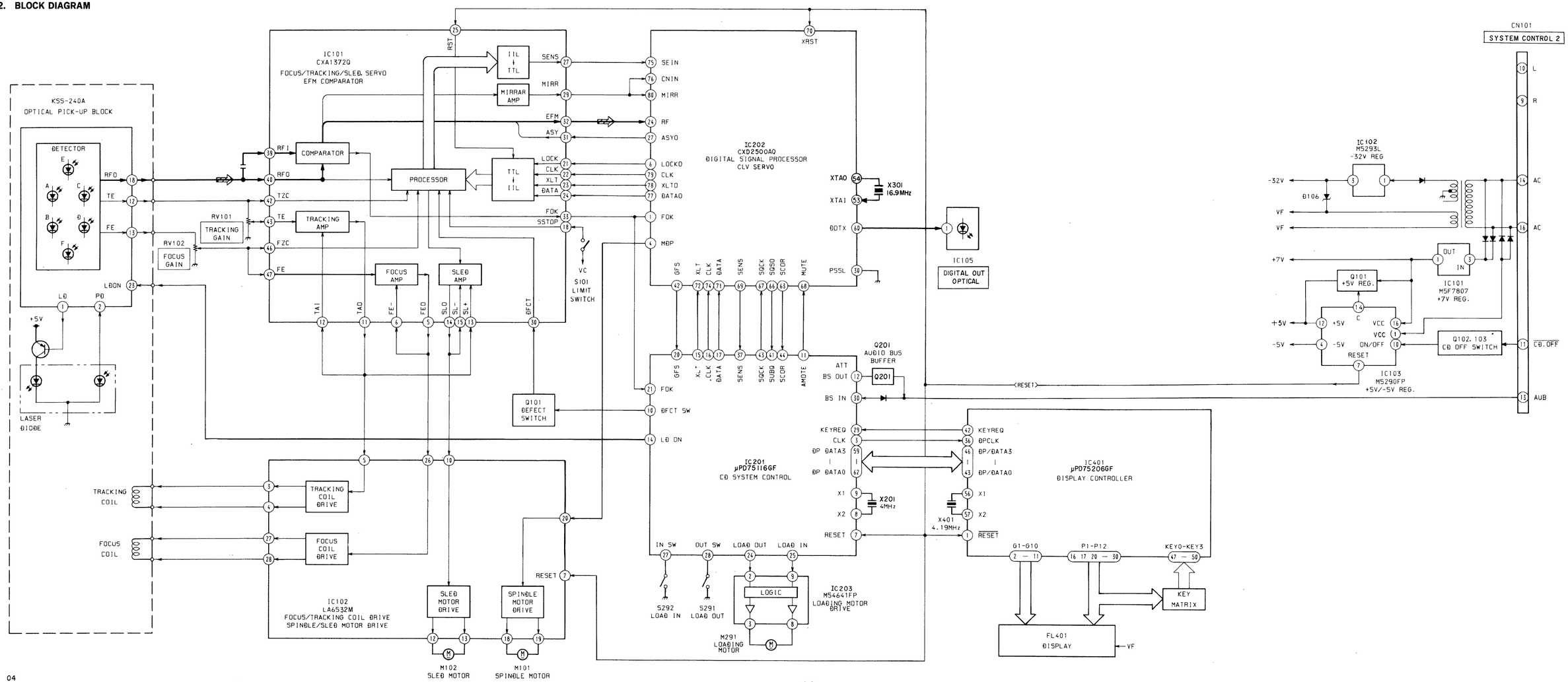
	IN	OUT	BRAKE
LODOUT ㉔	L	H	H
LODIN ㉕	H	L	H

• IC401 Display controller (μPD75206GF-716-3BE)

In charge of displaying the FL tube and keying in, it exchanges data with the IC201 (CD system controller) in 4-bit parallel mode.

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{RESET}}$	I	System reset input. "L": Reset
2 - 11	G1-10	O	Digital output to the FL tube
12 - 15		O	Not in use with the model (open)
16, 17	l, k	O	FL tube segment output
18	VLOAD	–	Power supply for the FL tube controller (builtin) (-32V)
19	VPRE	–	Power supply for the FL tube predriver (-3.5V)
20 - 25	j ~ e	O	FL tube segment output
26	V_{DD}	–	Power terminal (+5V)
27, 28	d, c	O	FL tube segment output
29, 30	b, a	O	FL tube segment, key scan output
31, 32		I	Not in use with the model (GND)
33	$\overline{\text{TEST}}$	I	Test mode input. "L": Test mode
34	SELECT	I	Not in use with the model (pull up)
35	BSIN	I	Not in use with the model (pull up)
36	DPCLK	I	Display data transfer clock input from IC201 (CD system controller)
37, 38		I	Not in use with the model (pull up)
39		O	Not in use with the model (pull up)
40, 41		O	Not in use with the model (open)
42	KEY REQ	O	Key data request output to IC201 (CD system controller)
43 - 46	DPDATA0-3	I/O	Key data output and display data input with IC201 (CD system controller)
47 - 50	KEY0-3	I	Key data input
51, 52		I	Not in use with the model (pull up)
53, 54		I	Not in use with the model (GND)
55		O	Not in use with the model (open)
56	X1	I	System clock input (4.19 MHz)
57	X2	I	System clock input
58	Vss	–	Power supply terminal (GND)
59		I	Not in use with the model (GND)
60 - 64		O	Not in use with the model (open)

4-2. BLOCK DIAGRAM



CDP-H7700D CDP-H7700D

4-3. PRINTED WIRING BOARDS • Refer to page 22 for Semiconductor Lead Layouts.

• Semiconductor Location

Except BD Board

Ref. No.	Location
D101	C-7
D102	C-6
D103	C-7
D104	D-9
D106	C-8
D113	C-2
D131	C-5
D132	C-2
D201	H-5
D206	H-6
D401	E-16
D402	F-17
D403	E-13
IC101	D-6
IC102	C-8
IC103	D-6
IC105	B-7
IC201	H-3
IC202	F-3
IC203	H-6
IC401	E-14
Q101	D-5
Q102	C-5
Q103	B-6
Q201	H-5

BD Board

Ref. No.	Location
IC101	G-8
IC102	G-9
Q101	G-8

Note:
- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

【MAIN BOARD】(COMPONENT SIDE)

【MAIN BOARD】(CONDUCTOR SIDE)

【POWER BOARD】

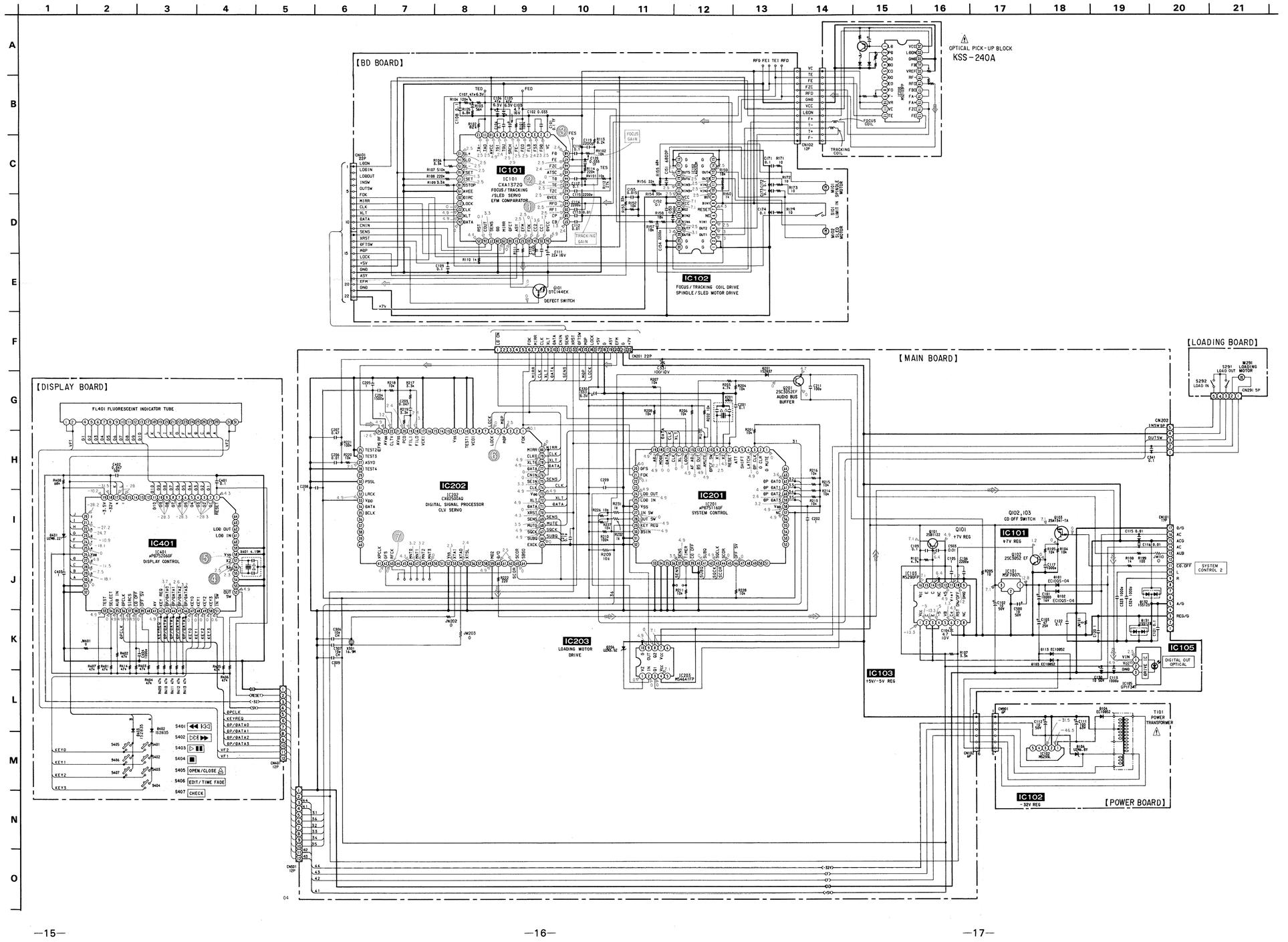
【DISPLAY BOARD】(CONDUCTOR SIDE)

【DISPLAY BOARD】(COMPONENT SIDE)

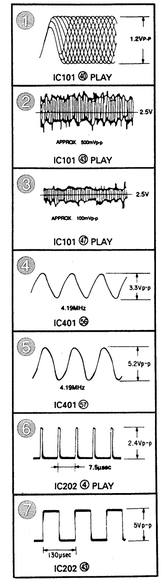
【BD BOARD】

OPTICAL PICK-UP BLOCK (KSS-240A)

【LOADING BOARD】



• Waveforms


1 1.2Vp-p IC101 ⑩ PLAY
2 2.5V APPROX. 500mVp-p IC101 ⑩ PLAY
3 2.5V APPROX. 100mVp-p IC101 ⑩ PLAY
4 3.3Vp-p 4.19MHz IC401 ⑰
5 5.2Vp-p 4.19MHz IC401 ⑰
6 2.4Vp-p 7.5μsec IC202 ④ PLAY
7 5Vp-p 130μsec IC202 ⑭

Note:

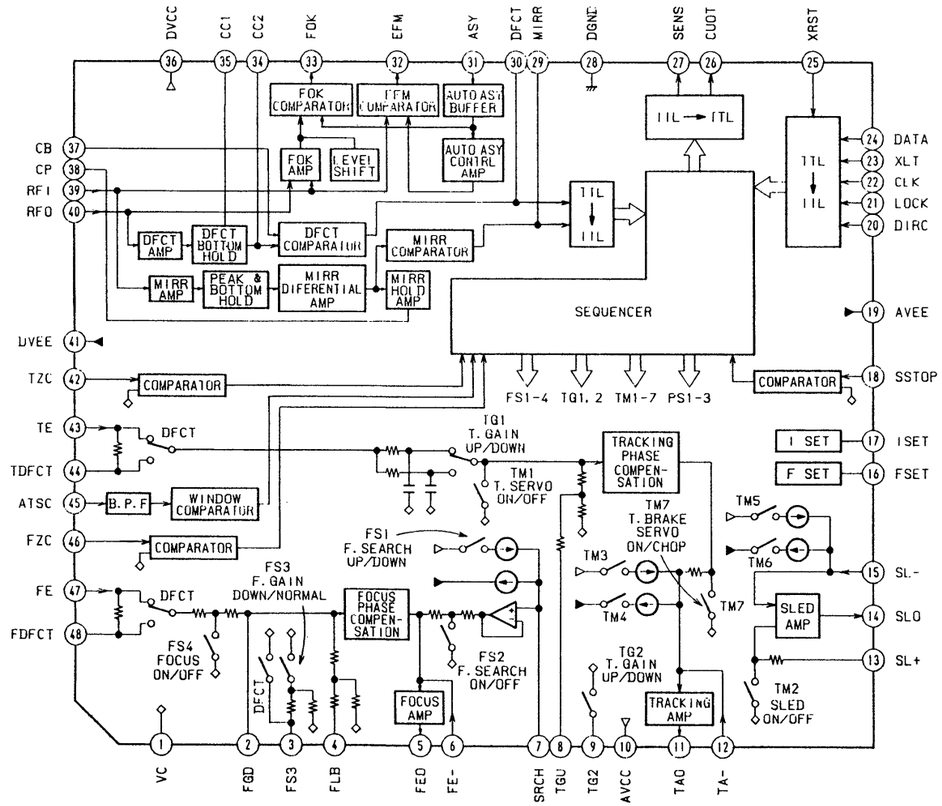
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ⚠ : internal component.
- ▭ : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

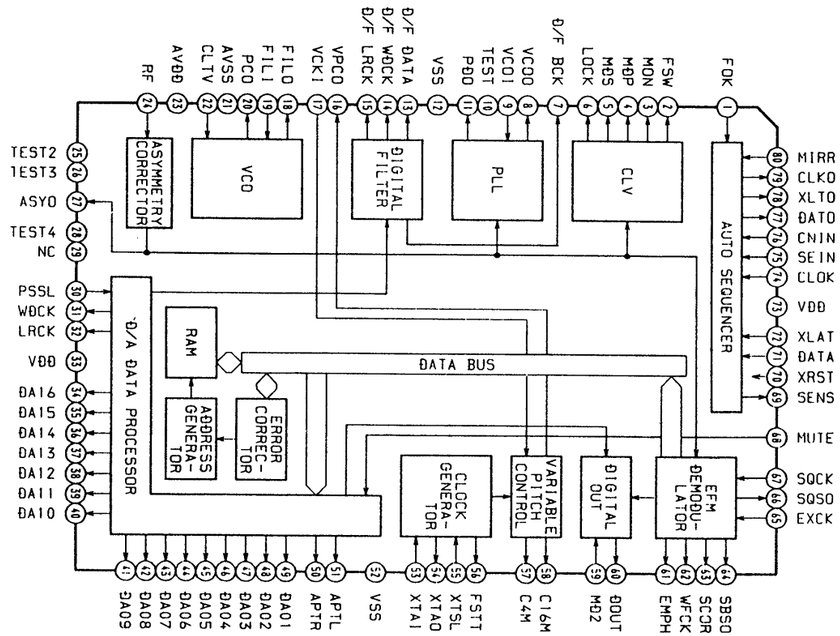
- ▭▭ : B+ Line
- ▭▭ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : STOP
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- **Signal path.** ▨ : CD

• IC Block Diagrams

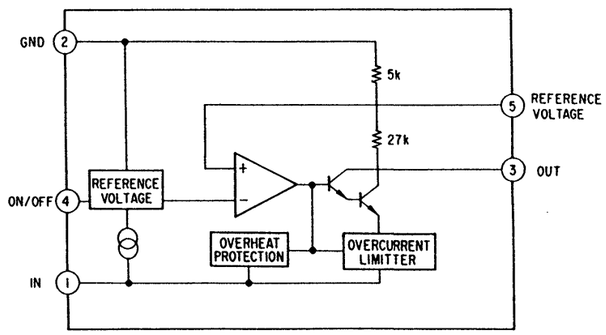
IC101 CXA1372Q (BD Board)



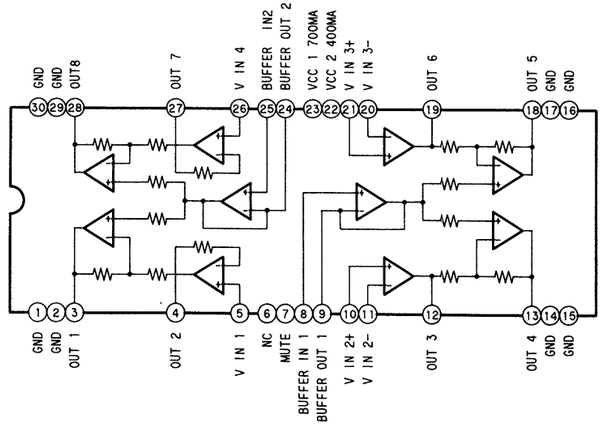
IC202 CXD2500AQ



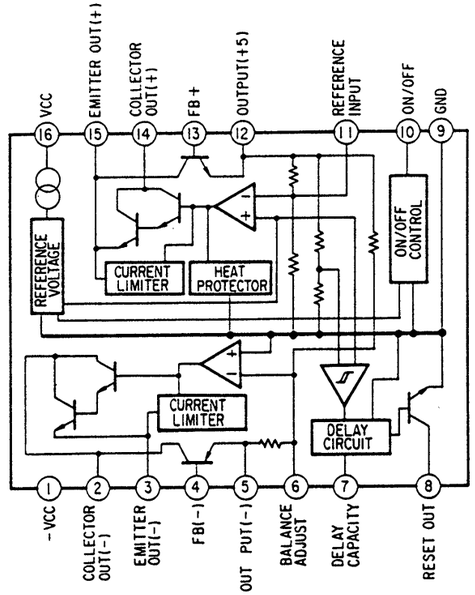
IC102 M5293L (Power Board)



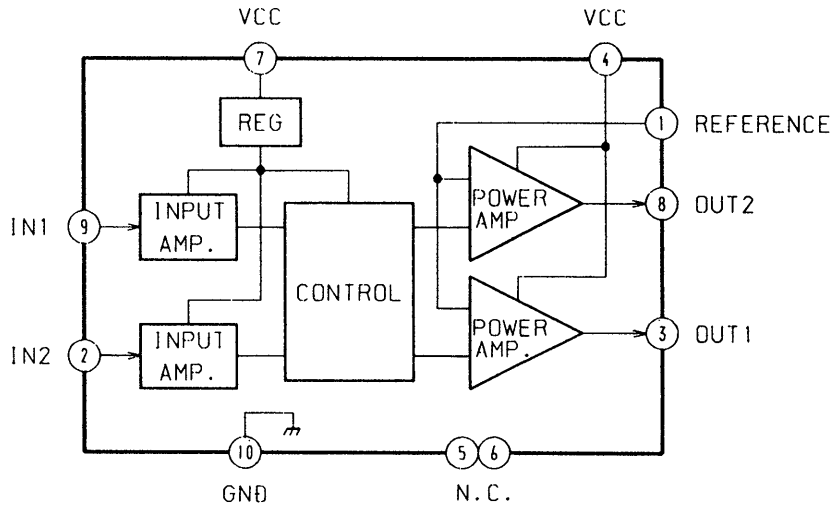
IC102 LA6532M (BD Board)



IC103 M5290FP

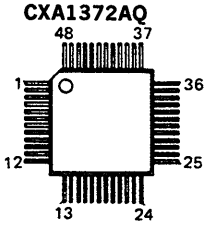


IC203 M54641FP



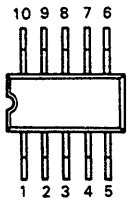
4-5. SEMICONDUCTOR LEAD LAYOUTS

CXA1372AQ

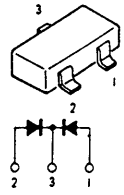


(TOP VIEW)

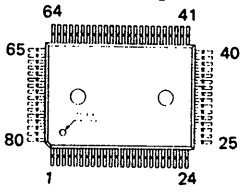
M54641FP



MA152WK

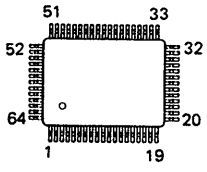


CXD2500AQ



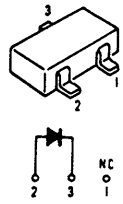
MARKING SIDE VIEW

μPD75206GF
-716-3BE

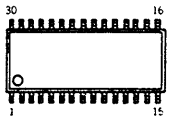


(TOP VIEW)

UZM3.9Z
UZM6.8Y

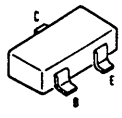


LA6532M

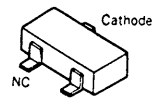


(TOP VIEW)

DTC144EK
2SC3052-EF

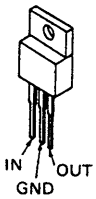


UZM8.2Z

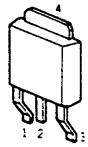


Anode

M5F7807L

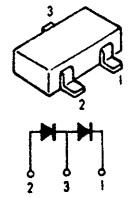


2SA1341

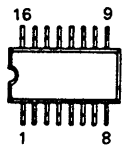


1 BASE
2 COLLECTOR
3 EMITTER
4 COLLECTOR

1SS226

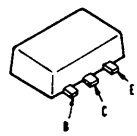


M5290FP

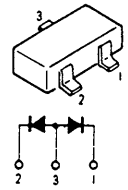


(TOP VIEW)

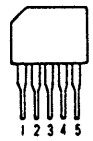
2SB1122-S



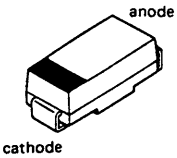
1S2836



M5293L



EC10DS2
EC10QS-04



cathode

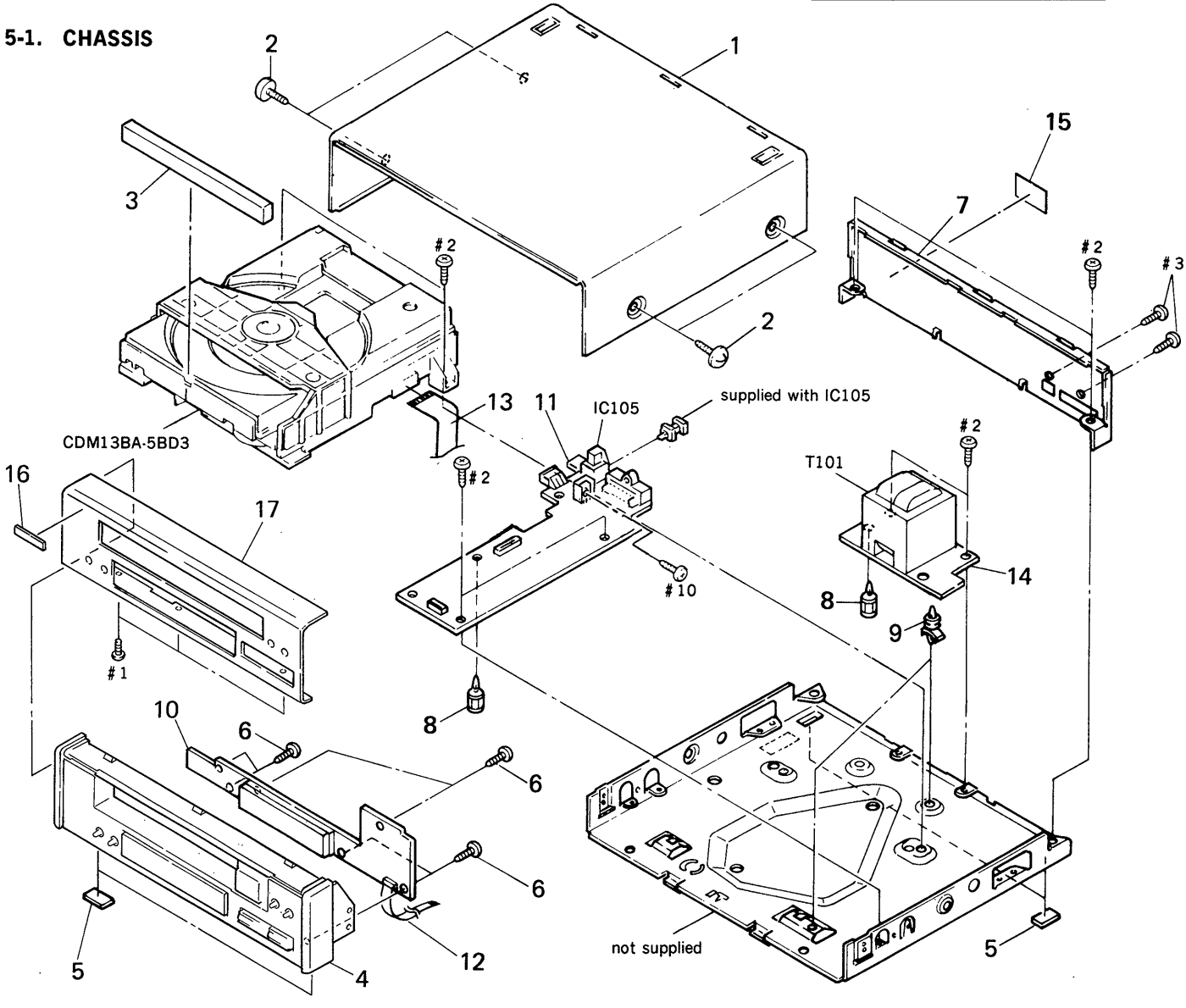
SECTION 5
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

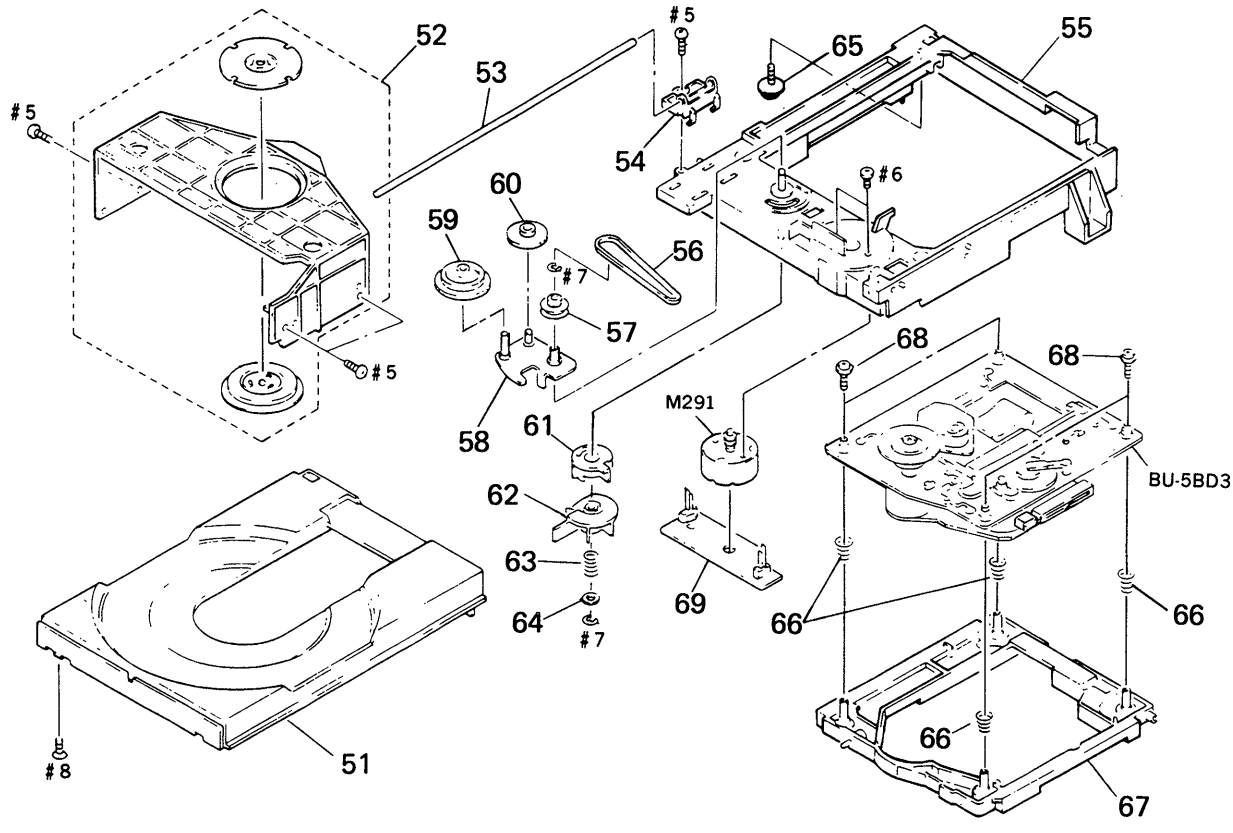
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

5-1. CHASSIS



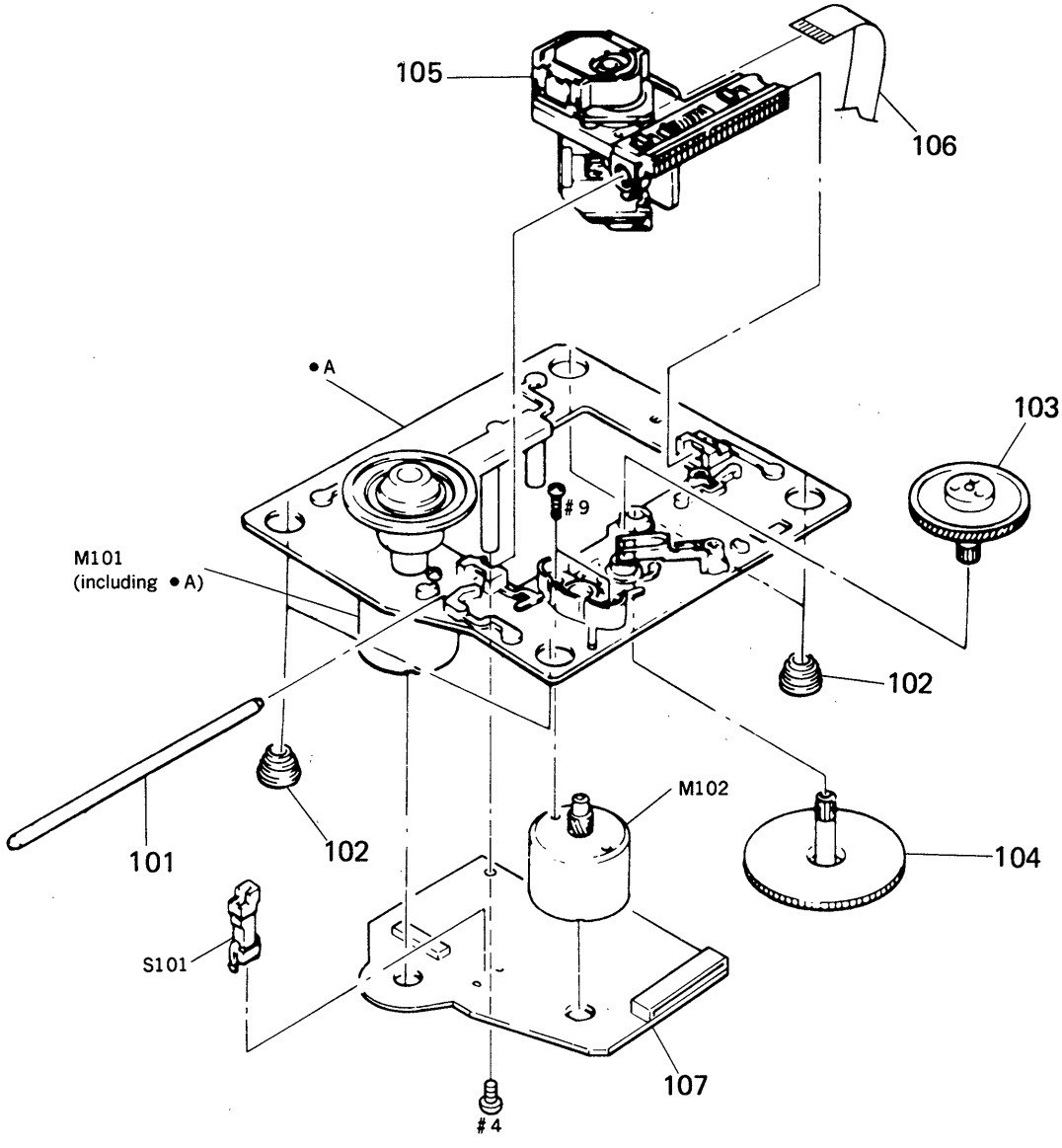
Ref. No.	Part No.	Description	Remark
1	4-932-844-71	CASE	
2	3-363-099-01	SCREW (CASE +3X8 TP2)	
3	X-4941-799-1	LID (TRAY) ASSY	
4	X-4941-800-1	PANEL ASSY, FRONT	
5	4-930-336-21	FOOT (FELT)	
6	4-951-620-01	SCREW (2.6X8), +BVTP	
* 7	4-949-940-11	PANEL (CDP), BACK	
* 8	3-669-610-00	SPACER	
* 9	4-924-098-11	HOLDER, PC BOARD	
* 10	A-4649-269-A	DISPLAY BOARD, COMPLETE	
* 11	A-4649-262-A	MOUNTED PCB (A), MAIN	
12	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
13	1-690-753-11	WIRE (FLAT TYPE) (22 CORE)	
* 14	1-642-539-11	POWER BOARD	
* 15	4-941-548-01	LABEL, CLASS1	
16	4-942-636-11	EMBLEM (NO.3.5), SONY	
17	4-944-445-11	PANEL, FRONT	
IC105	8-749-921-12	IC GP1F32T	
⚠T101	1-450-341-11	TRANSFORMER, POWER	

5-2. CD BLOCK (CDM13BA-5BD3)



Ref. No.	Part No.	Description	Remark
51	4-944-012-01	TABLE, DISC	
52	A-4604-752-A	HOLDER (MG) ASSY	
53	4-929-764-01	SHAFT (TABLE GUIDE)	
54	4-944-006-01	BEARING	
55	X-4941-462-1	CHASSIS (MD) ASSY	
56	4-927-649-01	BELT	
57	4-929-724-01	PULLEY (B)	
58	X-4929-703-1	ARM ASSY, SWING	
59	4-927-620-01	GEAR (P)	
60	4-927-628-01	GEAR (C)	
61	4-929-727-01	CAM (A)	
62	4-929-729-01	CAM (B)	
63	3-659-338-00	SPRING, COMPRESSION	
64	4-927-654-01	WASHER (LIMITER)	
* 65	4-917-583-21	BRACKET, YOKE	
66	4-917-541-01	SPRING (B)	
67	4-929-747-01	HOLDER (BU)	
68	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 69	1-634-461-11	LOADING BOARD	
M291	A-4608-362-A	MOTOR (L) ASSY	

5-3. OPTICAL PICK-UP BLOCK (BU-5BD3)



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
101	4-917-565-01	SHAFT, SLED	
102	4-933-126-01	INSULATOR (A)	
103	4-917-567-01	GEAR (M)	
104	4-917-564-01	GEAR (P), FLATNESS	
⚠105	8-848-144-11	DEVICE, OPTICAL KSS-240A	
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
* 107	A-4617-371-A	BD BOARD, COMPLETE	
M101	X-4917-523-3	MOTOR ASSY, SPINDLE	
M102	X-4917-504-1	MOTOR ASSY, SLED	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

BD

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4617-371-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C102	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C103	1-126-163-11	ELECT	4.7uF	20%	50V
C104	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C105	1-126-154-11	ELECT	47uF	20%	6.3V
C106	1-126-154-11	ELECT	47uF	20%	6.3V
C107	1-126-154-11	ELECT	47uF	20%	6.3V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-131-367-00	TANTALUM	22uF	10%	20V
C112	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C113	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C114	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C117	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C118	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C119	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C120	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C152	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C153	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C154	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C155	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C171	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C172	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C173	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C174	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
		< IC >			
IC101	8-752-053-73	IC CXA1372AQ			
IC102	8-759-822-36	IC LA6532M			
		< JUMPER RESISTOR >			
J101	1-216-295-00	METAL CHIP	0	5%	1/10W
J102	1-216-295-00	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
		< RESISTOR >			
R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
R102	1-216-095-00	METAL CHIP	82K	5%	1/10W
R103	1-216-091-00	METAL CHIP	56K	5%	1/10W
R104	1-216-099-00	METAL CHIP	120K	5%	1/10W
R105	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R108	1-216-105-00	METAL CHIP	220K	5%	1/10W
R109	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R114	1-216-105-00	METAL CHIP	220K	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R153	1-216-085-00	METAL CHIP	33K	5%	1/10W
R154	1-216-085-00	METAL CHIP	33K	5%	1/10W
R155	1-216-093-00	METAL CHIP	68K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-079-00	METAL CHIP	18K	5%	1/10W
R158	1-216-079-00	METAL CHIP	18K	5%	1/10W
R159	1-216-079-00	METAL CHIP	18K	5%	1/10W
R160	1-216-049-00	METAL CHIP	1K	5%	1/10W
R171	1-216-001-00	METAL CHIP	10	5%	1/10W
R172	1-216-001-00	METAL CHIP	10	5%	1/10W
R173	1-216-001-00	METAL CHIP	10	5%	1/10W
R174	1-216-001-00	METAL CHIP	10	5%	1/10W

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV101	1-241-630-11	RES, ADJ, CARBON 10K			
RV102	1-241-630-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)			
**********					
*	A-4649-269-A	DISPLAY BOARD, COMPLETE			
		**********			
*	A-4649-262-A	MAIN BOARD, COMPLETE			
		**********			
*	1-642-539-11	POWER BOARD			
		**********			
*	4-880-403-11	HEAT SINK			
*	4-932-810-11	CUSHION (FL)			
*	4-944-444-01	HOLDER (FL TUBE)			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C101	1-126-939-11	ELECT	10000uF	20%	16V
C102	1-124-907-11	ELECT	10uF	20%	50V
C103	1-124-477-11	ELECT	47uF	20%	25V
C104	1-135-155-21	TANTALUM CHIP	4.7uF	10%	16V
C105	1-164-346-11	CERAMIC CHIP	1uF		16V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C111	1-126-063-11	ELECT	100uF	20%	63V
C112	1-124-907-11	ELECT	10uF	20%	50V
C113	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C115	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C116	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C117	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C120	1-164-346-11	CERAMIC CHIP	1uF		16V
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C130	1-124-907-11	ELECT	10uF	20%	50V
C201	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C202	1-164-346-11	CERAMIC CHIP	1uF		16V
C203	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C204	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C205	1-164-346-11	CERAMIC CHIP	1uF		16V
C206	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C207	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C208	1-164-346-11	CERAMIC CHIP	1uF		16V
C209	1-164-346-11	CERAMIC CHIP	1uF		16V
C210	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C211	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C306	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C307	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C309	1-162-638-11	CERAMIC CHIP	1uF		16V
C323	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C324	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C330	1-124-442-00	ELECT	330uF	20%	6.3V
C331	1-124-443-00	ELECT	100uF	20%	10V
C341	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C401	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C402	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C403	1-164-346-11	CERAMIC CHIP	1uF		16V
C404	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C500	1-124-907-11	ELECT	10uF	20%	50V
C503	1-163-031-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
* CN101	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 2)			
CN102	1-568-662-11	CONNECTOR, BOARD TO BOARD 6P			
* CN201	1-568-822-11	SOCKET, CONNECTOR 22P			
* CN202	1-564-339-00	PIN, CONNECTOR 5P			
* CN301	1-573-099-11	HOUSING, CONNECTOR 12P			
* CN401	1-573-098-11	HOUSING, CONNECTOR 12P			
CN901	1-568-668-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D101	8-719-210-39	DIODE	EC10QS-04		
D102	8-719-210-39	DIODE	EC10QS-04		
D103	8-719-210-33	DIODE	EC10DS2		
D104	8-719-210-33	DIODE	EC10DS2		
D106	8-719-021-59	DIODE	UZM6.8Y		
D113	8-719-210-33	DIODE	EC10DS2		
D131	8-719-800-76	DIODE	1SS226		
D132	8-719-800-76	DIODE	1SS226		
D201	8-719-400-18	DIODE	MA152WK		
D206	8-719-021-13	DIODE	UZM3.9Z		
D401	8-719-021-77	DIODE	UZM8.2Z		
D402	8-719-104-34	DIODE	1S2836		
D403	8-719-104-34	DIODE	1S2836		
		< FLUORESCENT INDICATOR >			
FL401	1-519-652-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-604-86	IC	M5F7807		
IC102	8-759-633-42	IC	M5293L		
IC103	8-759-636-24	IC	M5290FP		
IC105	8-749-921-12	IC	GP1F32T		
IC201	8-759-059-86	IC	uPD75116GF-F21-3BE		
IC202	8-752-337-26	IC	CXD2500AQ		

DISPLAY | **MAIN** | **POWER** | **LOADING**

Ref. No.	Part No.	Description			Remark
IC203	8-759-636-20	IC M54641FP			
IC401	8-759-154-14	IC uPD75206GF-716-3BE			
		< JUMPER RESISTOR >			
JW101	1-216-296-00	METAL CHIP	0	5%	1/8W
JW110	1-216-296-00	METAL CHIP	0	5%	1/8W
JW202	1-216-295-00	METAL CHIP	0	5%	1/10W
JW203	1-216-295-00	METAL CHIP	0	5%	1/10W
JW401	1-216-295-00	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q101	8-729-804-41	TRANSISTOR	2SB1122-S		
Q102	8-729-620-06	TRANSISTOR	2SC3052-EF		
Q103	8-729-805-69	TRANSISTOR	2SA1341		
Q201	8-729-620-06	TRANSISTOR	2SC3052-EF		
		< RESISTOR >			
R101	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R107	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R108	1-216-049-00	METAL CHIP	1K	5%	1/10W
R199	1-216-025-00	METAL CHIP	100	5%	1/10W
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-216-073-00	METAL CHIP	10K	5%	1/10W
R203	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R205	1-216-001-00	METAL CHIP	10	5%	1/10W
R206	1-216-073-00	METAL CHIP	10K	5%	1/10W
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W
R208	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-073-00	METAL CHIP	10K	5%	1/10W
R210	1-216-097-00	METAL CHIP	100K	5%	1/10W
R211	1-216-073-00	METAL CHIP	10K	5%	1/10W
R213	1-216-073-00	METAL CHIP	10K	5%	1/10W
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
R215	1-216-073-00	METAL CHIP	10K	5%	1/10W
R216	1-216-073-00	METAL CHIP	10K	5%	1/10W
R217	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R220	1-216-073-00	METAL CHIP	10K	5%	1/10W
R221	1-216-097-00	METAL CHIP	100K	5%	1/10W
R222	1-216-033-00	METAL CHIP	220	5%	1/10W
R226	1-216-073-00	METAL CHIP	10K	5%	1/10W
R227	1-216-073-00	METAL CHIP	10K	5%	1/10W
R228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R231	1-216-049-00	METAL CHIP	1K	5%	1/10W
R232	1-216-049-00	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R401	1-216-089-00	METAL CHIP	47K	5%	1/10W
R402	1-216-089-00	METAL CHIP	47K	5%	1/10W
R403	1-216-089-00	METAL CHIP	47K	5%	1/10W
R404	1-216-089-00	METAL CHIP	47K	5%	1/10W
R405	1-216-089-00	METAL CHIP	47K	5%	1/10W
R406	1-216-089-00	METAL CHIP	47K	5%	1/10W
R407	1-216-089-00	METAL CHIP	47K	5%	1/10W
R408	1-216-093-00	METAL CHIP	68K	5%	1/10W
R409	1-216-089-00	METAL CHIP	47K	5%	1/10W
R410	1-216-089-00	METAL CHIP	47K	5%	1/10W
R411	1-216-089-00	METAL CHIP	47K	5%	1/10W
R412	1-216-089-00	METAL CHIP	47K	5%	1/10W
R413	1-216-089-00	METAL CHIP	47K	5%	1/10W
R414	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< SWITCH >			
S401	1-554-303-21	SWITCH, TACTILE (◀◀ ⏮)			
S402	1-554-303-21	SWITCH, TACTILE (⏭ ▶▶)			
S403	1-554-303-21	SWITCH, TACTILE (▷ ❚❚)			
S404	1-554-303-21	SWITCH, TACTILE (■)			
S405	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE ⏏)			
S406	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)			
S407	1-554-303-21	SWITCH, TACTILE (CHECK)			
		< TRANSFORMER >			
⚠T101	1-450-341-11	TRANSFORMER, POWER			
		< VIBRATOR >			
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
X301	1-567-908-11	VIBRATOR, CRYSTAL (16.9MHz)			
X401	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)			
**********					
*	1-634-461-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN291	1-564-498-11	PIN, CONNECTOR 5P			
		< SWITCH >			
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)			
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)			
**********					

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
12	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
13	1-690-753-11	WIRE (FLAT TYPE) (22 CORE)	
⚠105	8-848-144-11	DEVICE, OPTICAL KSS-240A	
106	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	MOTOR ASSY, SPINDLE	
M102	X-4917-504-1	MOTOR ASSY, SLED	
M291	A-4608-362-A	MOTOR (L) ASSY	

****

****
HARDWARE LIST
****

#1	7-682-547-09	SCREW +BVTT 3X6 (S)	
#2	7-682-547-04	SCREW +BVTT 3X6 (S)	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#4	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#6	7-621-775-10	SCREW +B 2.6X4	
#7	7-624-105-04	STOP RING 2.3, TYPE -E	
#8	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
#9	7-621-255-15	SCREW +P 2X3	
#10	7-682-548-04	SCREW +BVTT 3X8 (S)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

ST-H7700D

SERVICE MANUAL

AEP Model
UK Model

This set is the tuner
section in MHC-7700D/7710D.

- ST-H7700D is similar to the earlier ST-H6700 (AEP, UK model).
- Refer to ST-H6700 service manual for information not contained in this service manual.

PARTS LIST (The difference between ST-H6700 and ST-H7700D)

Page	ST-H6700				ST-H7700D		
	Ref. No.	Part No.	Description	Remarks	Part No.	Description	Remarks
23	1	4-932-844-11	CASE		4-950-163-01	CASE	
	3	X-4942-536-1	PANEL (H) ASSY, FRONT		X-4942-740-1	PANEL (N) ASSY, FRONT	
	*11	4-948-730-01	PANEL (EXP), BACK (AEP, UK)		*4-948-730-61	PANEL (EXP), BACK (AEP, UK)	
	*11	4-948-730-11	PANEL (EXP), BACK (IT)		*4-948-730-71	PANEL (EXP), BACK (IT)	
	*11	4-948-730-21	PANEL (EXP), BACK (G)		*4-948-730-51	PANEL (EXP), BACK (G)	
	12	4-950-911-11	PANEL (ST), FRONT		4-950-911-21	PANEL (ST), FRONT	
	16	4-942-636-01	EMBLEM (NO. 3.5), SONY		4-942-636-11	EMBLEM (NO. 3.5), SONY	

- G : Germany model
- IT : Italian model

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

FM STEREO/FM-AM TUNER

SONY®

9-957-267-11

Sony Corporation
Audio Group

English
92F0459-1
Printed in Japan
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TC-H7700D

SERVICE MANUAL

AEP Model
UK Model

This set is the cassette deck
section in MHC-7700D/7710D

- TC-H7700D is similar to the earlier TC-H5600 (AEP, UK model).
- Refer to TC-H5600 service manual for information not contained in this service manual.

STEREO CASSETTE DECK

SONY®

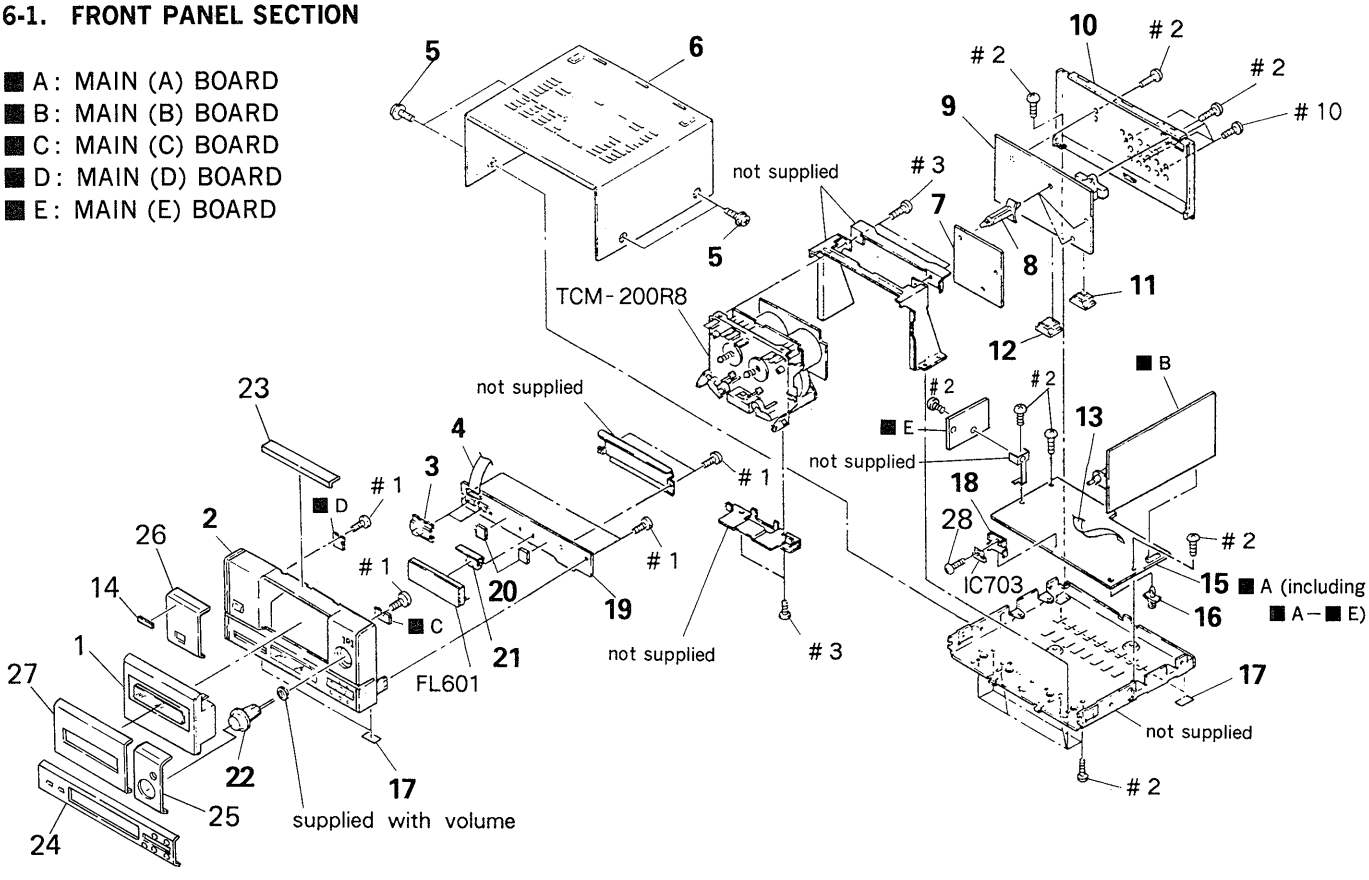
PAGE 41.

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color

6-1. FRONT PANEL SECTION

■ A: MAIN (A) BOARD
■ B: MAIN (B) BOARD
■ C: MAIN (C) BOARD
■ D: MAIN (D) BOARD
■ E: MAIN (E) BOARD



Ref. No.	Part No.	Description	Remark
1	X-3365-295-1	LID ASSY, CASSETTE	
2	X-3365-293-1	PANEL ASSY, FRONT	
3	3-368-105-11	KNOB (SLIDE)	
4	1-575-906-11	WIRE, FLAT TYPE (15 CORE)	
5	3-363-099-11	SCREW (CASE +3X8 TP2)	
6	4-932-841-81	CASE	
* 7	1-639-415-11	POWER BOARD	
* 8	3-703-353-02	SUPPORT, PC BOARD	
* 9	A-2006-548-A	JACK BOARD, COMPLETE	
* 10	3-375-194-11	PANEL, BACK (AEP, UK)	
* 10	3-375-194-02	PANEL, BACK (Germany)	
* 11	1-573-188-11	CONNECTOR, BRIDGE 7P	
* 12	1-573-389-11	CONNECTOR, BRIDGE 8P	
13	1-575-903-11	WIRE. FLAT TYPE (15 CORE)	
14	4-942-636-11	EMBLEM (No. 3.5), SONY	
* 15	A-2006-452-A	MAIN BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
* 16	3-350-847-31	HOLDER, PCB	
17	4-930-336-21	FOOT (FELT)	
* 18	3-356-925-01	HEAT SINK	
* 19	A-2006-453-A	PANEL BOARD, COMPLETE	
* 20	4-921-941-01	CUSHION (FL)	
* 21	3-368-109-01	HOLDER, FL TUBE	
22	X-3365-294-1	KNOB (REC VOL) ASSY	
23	3-367-893-51	PLATE (TOP), ORNAMENTAL	
24	3-368-095-11	PLATE (PANEL), ORNAMENTAL	
25	3-368-097-11	PLATE (R), ORNAMENTAL	
26	3-368-096-11	PLATE (L), ORNAMENTAL	
27	3-368-098-11	PLATE (CASSETTE), ORNAMENTAL	
28	7-682-548-04	SCREW +BVTT 3X8 (S)	
FL601	1-519-656-11	INDICATOR TUBE, FLUORESCENT	
IC703	8-759-973-95	IC BA6219B	

9-957-271-11

Sony Corporation
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English
92F0459-1
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SS-H7700D

SERVICE MANUAL

AEP Model
E Model
Tourist Model

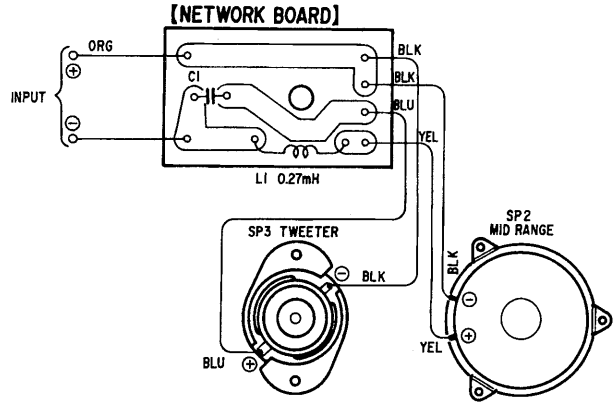
SPECIFICATIONS

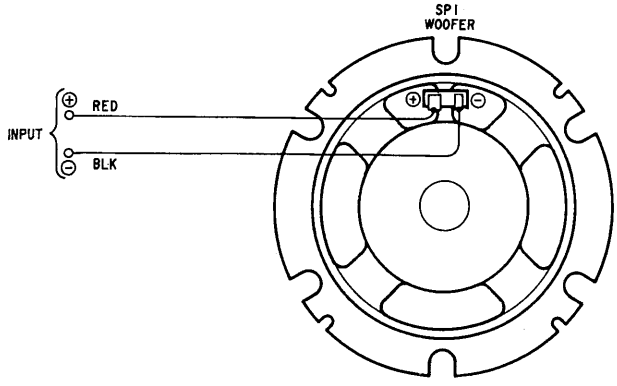
Speaker system	3-way, 4-box type
Satellite unit	
Speaker units	Mid-range : 8 cm (3 in.) cone type Tweeter : 2.5 cm (1in.) balance drive type
Rated impedance	8 ohms
Power handling capacity	Maximum input power 50W
Effective frequency range	150-20,000 Hz
Sensitivity	89 dB/W/m
Dimensions	Approx. 185x115x225mm (w/h/d) ($7^3/_8$ x $4^5/_8$ x $8^7/_8$ in.)
Weight	Approx. 1.8kg (3 lb 15 oz)
Bass unit	
Speaker unit	Woofer : 15 cm (6 in.) cone type
Rated impedance	6 ohms
Power handling capacity	Maximum input power 70W
Effective frequency range	40-150Hz
Sensitivity	89 dB/W/m
Dimensions	Approx. 185x250x225mm (w/h/d) ($7^3/_8$ x $9^7/_8$ x $8^7/_8$ in.)
Weight	Approx. 3.4kg (7 lb 8 oz)

Design and specifications subject to change without notice.

This set is the speaker system in FH-E959 and MHC-7700D.

.. WIRING DIAGRAM





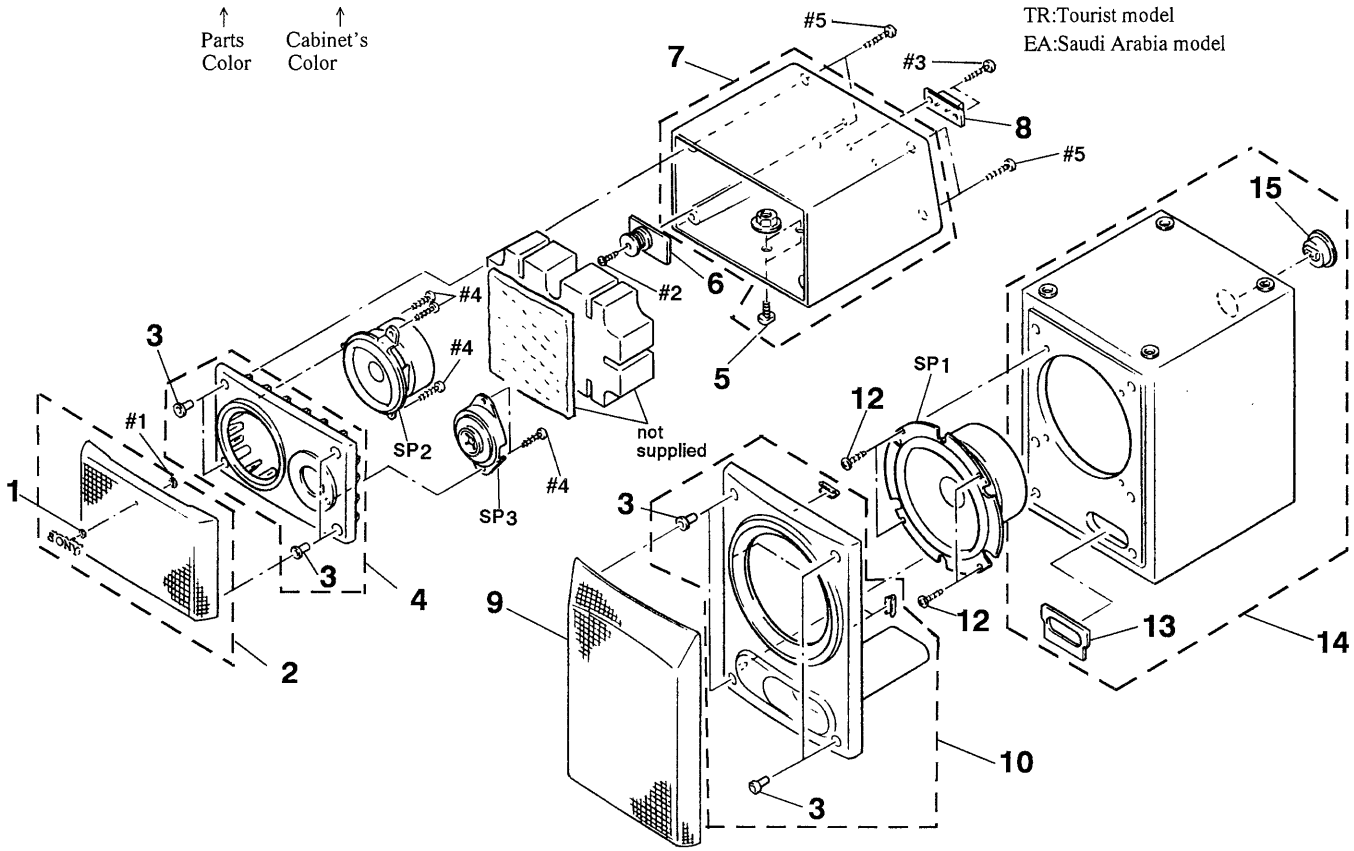
SPEAKER SYSTEM

SONY®

2. EXPLODED VIEW AND PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts.
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Hardware (# mark) list is given in the last of this parts list.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  IT:Italian model
  G:Germany model
  TR:Tourist model
  EA:Saudi Arabia model



Ref.No.	Part No.	Description	Remark
1	3-701-437-21	WASHER	
2	X-4942-686-1	FRAME (S) ASSY, GRILLE	
3	4-912-253-01	CATCHER	
4	X-4942-687-1	PANEL (S) ASSY, FRONT	
5	4-928-613-21	NUT, STAND FIXED	
* 6	1-589-388-11	MOUNTED PC BOARD (NETWORK) (AEP, IT, G)	
* 6	1-589-388-21	MOUNTED PC BOARD (NETWORK) (E, EA, TR)	
7	X-4942-688-1	CABINET (S) ASSY, SPEAKER	
8	1-537-337-31	TERMINAL BOAED (2P. SP)	
9	X-4942-689-1	FRAME (W) ASSY, GRILLE	
10	X-4942-690-1	PANEL (W) (R) ASSY, FRONT	
10	X-4942-691-1	PANEL (W) (L) ASSY, FRONT	
12	4-874-614-11	SCREW (4) (3.5X14), TAPPING	
* 13	4-949-398-01	PACKING (D)	
14	X-4942-692-1	CABINET (W) (R) ASSY, SPEAKER (AEP, E, EA, TR, IT)	
14	X-4942-693-1	CABINET (W) (L) ASSY, SPEAKER (AEP, E, EA, TR, IT)	
14	X-4942-697-1	CABINET (W) (R) ASSY, SPEAKER (G)	
14	X-4942-698-1	CABINET (W) (L) ASSY, SPEAKER (G)	

Ref.No.	Part No.	Description	Remark
15	1-537-332-11	TERMINAL BOARD	
SP1	1-544-628-11	SPEAKER (15cm)	
SP2	1-544-744-11	SPEAKER (8cm) (AEP, IT, G)	
SP2	1-544-744-21	SPEAKER (8cm) (E, EA, TR)	
SP3	5-544-626-11	SPEAKER (2.5cm)	
		< ACCESSORIES & PACKING MATERIALS >	
	1-590-855-11	CORD, SPEAKER (AEP, IT, G)	
	3-694-922-01	SHEET, PROTECTION	
	3-701-630-00	BAG, POLYETHYLENE (AEP, IT, G)	
	3-755-033-11	MANUAL, INSTRUCTION (AEP, IT, G) (ENGLISH, FRENCH, SPANISH, PORTUGUESE, GERMAN, DUTCH, SWEDISH, ITALIAN)	
*	4-945-080-01	CUSHION	
		< HARDWARE LIST >	
#1	7-624-200-11	NUT, PUSH 2	
#2	7-685-165-01	SCREW +PTP 4X25 TYPE1	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#4	7-685-660-79	SCREW +BVTP 4X10 TYPE2 IT-3	
#5	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3	

English
92F0660-1
Printed in Japan
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9-957-265-11